



भारत सरकार /GOVT. OF INDIA

पत्तन, पोत परिवहन और जलमार्ग मंत्रालय / MINISTRY OF PORTS SHIPPING AND WATERWAYS
दीपस्तंभ और दीपपोत निदेशालय/ DIRECTORATE OF LIGHTHOUSES & LIGHTSHIPS
मुंबई/ MUMBAI

निविदा दस्तावेज़
TENDER DOCUMENT

कार्य का नाम : टोलकेश्वर दीपस्तंभ में लाइटहाउस टावर से जुड़े पुराने भवन तथा पावर हाउस की ईमारत
का पुनर्निर्माण और सामान्य मरम्मत और रखरखाव।

Name of work: Reconstruction of power house, office, store room and general
maintenance of Tolakeswar Lighthouse station

कार्यस्थल: - टोलकेश्वर दीपस्तंभ पोस्ट - अंजनवेल, ताल. - गुहागर,
जिला- रत्नागिरी, महाराष्ट्र, पिन -415 634

Place of Work: - Tolakeswar Point Lighthouse Post - Anjanvel, Tal. - Guhagar,
Dist.- Ratnagiri, Maharashtra, Pin -415634

निविदा दस्तावेज का मूल्य/ Cost of Bid Document ₹0/-

दीप भवन, एम.जी.रोड,घाटकोपर(पूर्व), मुंबई-400 077
Deep Bhavan, M.G. Road, Ghatkopar (East), Mumbai - 400 077
दूरभाष/ Tel:+91-22-2506 8390, फ़ैक्स/ Fax:+91-22-2506 0996
वेब साइट/website: www.dgll.nic.in ई मेल/email: dte-mum@gov.in



भारत सरकार
पत्तन, पोत परिवहन और जलमार्ग मंत्रालय
दीपस्तंभ और दीपपोत निदेशालय
'दीपभवन', एम.जी.मार्ग, घाटकोपर (पूर्व),
मुंबई 400077 (महाराष्ट्र)

Govt. of India
Ministry of Ports, Shipping & Waterways
DIRECTORATE OF LIGHTHOUSES & LIGHTSHIPS
'Deep Bhavan', M. G. Road, Ghatkopar
(East), Mumbai 400077 (Maharashtra)



दूरभाष / Telephone : 022 - 25068390 फ़ैक्स / FAX : 022 - 25060996 ई-मेल / E-mail : dte-mum@gov.in

कार्य का नाम : टोलकेश्वर दीपस्तंभ में लाइटहाउस टावर से जुड़े पुराने भवन तथा पावर हाउस की ईमारत का पुनर्निर्माण और सामान्य मरम्मत और रखरखाव।

Name of work: Reconstruction of power house, office, store room and general maintenance of Tolakeshwar Lighthouse station.

निविदा दस्तावेज़/ BID DOCUMENTS

क्रम संख्या Sr. No.	विवरण/Description	सेक्शन/Section	पृष्ठ संख्या/ Page No.
1	ई - निविदा आमंत्रण सूचना /Notice Inviting e-Tender	I	02-07
2	बोलीदाता को निर्देश /Instructions to Bidder	II	08-12
3	विस्तृत निविदा सूचना /Detailed Tender Notice	III	13-16
4	अनुबंध की सामान्य शर्तें /General Conditions of Contract	IV	17-36
5	अनुबंध की विशेष शर्तें /Special Conditions of Contract	V	37-39
6	सिविल कार्यों के लिए सामान्य विशेष विवरण General Specifications for Civil Works	VI	40-46
7	कार्यों की अनुसूची/Schedule of Works / Bill of Quantity (Uploaded Separately on website)	VII	47-64
8	तकनीकी (पात्रता) बोली मूल्यांकन मानदंड /TECHNICAL (ELIGIBILITY) BID EVALUATION CRITERIA	VIII	65-66
9	बयाना राशि जमा प्रपत्र/Earnest Money Deposit Form	Annexure-I	67
10	अनुबंध निष्पादन गारंटी का प्रोफार्मा /Proforma of Contract Performance Guarantee	Annexure-II	68-70
11	निविदा स्वीकृति पत्र /Tender Acceptance Letter	Annexure-III	71
12	अंडरटेकिंग/ UNDERTAKING	Annexure-IV	72
13	BID SECURING DECLARATION	Annexure-V	73
14	सरकार विभाग द्वारा सरकारी निविदा में भाग लेने से काली सूची में डालने के संबंध में घोषणा। DECLARATION REGARDING BLACKLISTING FROM TAKING PART IN GOVT.TENDER BY GOVT. DEPT	Annexure - VI	74
15	विविध सूची /MISCELLANEOUS LIST	Annexure - VII	75
16	घोषणा पत्र - किसी भी बोलीदाता के करीबी रिश्तेदार को डीजीएलएल या पत्तन, पोत परिवहन और जलमार्ग मंत्रालय में किसी भी पद पर लेखाकार या राजपत्रित अधिकारी के रूप में नियुक्त नहीं किया गया है। DECLARATION REGARDING – No bidder near relatives are posted as accountant or as a Gazetted Officer in any capacity in the DGLL) or in the MINISTRY OF PORTS SHIPPING AND WATERWAYS	Annexure - VIII	76
17	Self-Certification under Preference to “MAKE IN INDIA” order Certificate	Annexure - IX	77
17	रजिस्टर / Registers Drawings	Annexure – X, XI- for registers	78-81 82-88



भारत सरकार
पत्तन, पोत परिवहन और जलमार्ग मंत्रालय
दीपस्तंभ और दीपपोत निदेशालय
'दीपभवन', एम.जी.मार्ग, घाटकोपर (पूर्व),
मुंबई 400077 (महाराष्ट्र)

Govt. of India
Ministry of Ports, Shipping & Waterways
DIRECTORATE OF LIGHTHOUSES & LIGHTSHIPS
'Deep Bhavan', M. G. Road, Ghatkopar
(East), Mumbai 400077 (Maharashtra)



दूरभाष / Telephone : 022 - 25068390 फ़ैक्स / FAX : 022 - 25060996 ई-मेल / E-mail : dte-mum@gov.in

अनुभाग/SECTION-I
Date- 07.08.2025

CM-MUM-03016(05)/1/2020-Civil

ई - निविदा आमंत्रण सूचना

भारत के राष्ट्रपति महोदय की ओर से निदेशक, दीपस्तंभ और दीपपोत निदेशालय, मुंबई द्वारा निम्नलिखित कार्य के लिए केन्द्रीय लोक निर्माण विभाग, राज्य लोक निर्माण विभाग, एमईएस, रेलवे, बीएसएनएल या किसी भी अन्य केन्द्र/ राज्य सरकार/ सार्वजनिक क्षेत्र/ इत्यादि में पंजीकृत प्रतिष्ठित ठेकेदारों/ उपयुक्त श्रेणी की फ़र्मों से केवल ऑनलाइन प्रणाली द्वारा दो कवर प्रणाली (कवर I- तकनीकी बोली, कवर II- कमर्शियल बोली) में निविदाएं आमंत्रित की जाती हैं।

क्रम सं	विवरण	विवरण
1	कार्य का नाम	टोलकेश्वर दीपस्तंभ में लाइटहाउस टावर से जुड़े पुराने भवन तथा पावर हाउस की ईमारत का पुनर्निर्माण और सामान्य मरम्मत और रखरखाव।
2	कार्य स्थल	टोलकेश्वर दीपस्तंभ पोस्ट - अंजनवेल, ताल. - गुहागर, जिला- रत्नागिरी, महाराष्ट्र, पिन -415 634
3	अनुमानित लागत put to tender	₹ 96,86,148/- (Inclusive GST)
4	बयाना जमा	₹ 1,93,800 /- का मांग ड्राफ्ट, सावधि जमा रसीद (FDR) के रूप में किसी भी शिड्डुल बैंक द्वारा "निदेशक- दीपस्तंभ और दीपपोत, मुंबई" के पक्ष में मुंबई में देया। बयाना जमा तकनीकी बोली खोलने की तिथि से तीन माह तक की अवधि के लिए वैध होगी। बयाना जमा सभी बोलीदाताओं के लिए अनिवार्य है।
5	निविदा शुल्क	₹ 0/-
6	बीड दस्तावेज़ डाउनलोड और बोली प्रस्तुत करने की अवधि	07/08/2025(1600बजे) से 28/08/2025(1600 बजे) तक
7	प्री-बीड मीटिंग	Pre-bid Meeting 14/08/2025at 1600 hrs (prebid meeting will be at Deep Bhavan, M G Road Mumbai-400077.)
8	तकनीकी बोली खोलने की तिथि	02/09/2025(1600 hrs)
9	बयाना जमा/ निविदा शुल्क (असल) प्रस्तुत करने की अंतिम तिथि	02/09/2025(1600 बजे तक)
10	बोली की वैधता	90 दिन (तकनीकी बोली खोलने की तिथि से)
11	कार्य पूर्ण करने की अवधि	09 महीने (अनुबंध दिए जाने की तिथि से)
12	पात्रता का मापदंड	(1)पंजीकृत ठेकेदारों/ उपयुक्त श्रेणी की फ़र्मों जो निविदा सीमा के बराबर/ अधिक अनुमानित लागत के साथ केन्द्र सरकार/ राज्य सरकार / म्युनिसिपल कार्पोरेशन इत्यादि में पंजीकृत हों।

	(2) पिछले 7 सालों से समान प्रकृति का कार्य (Civil Construction, Repair and Maintenance work) संतोषजनक पूर्ण करने के प्रमाणपत्र [(a) अनुमानित लागत की 40% के बराबर राशि से कम नहीं की लागत के तीन कार्य या (b) अनुमानित लागत की 60% के बराबर राशि से कम नहीं की लागत के दो कार्य या (c) अनुमानित लागत की 80% के बराबर राशि से कम नहीं की लागत का कम से कम एक कार्य (सेक्शन-III के अनुसार)
	(1) पिछले 3 साल का वार्षिक कारोबार का दस्तावेजी साक्ष्य
	(2) स्थायी लेखा संख्या
	(3) जीएसटी संख्या

बयाना जमा

13. बयाना जमा ₹1,93,800 /- का मांग ड्राफ्ट, सावधि जमा रसीद (FDR) के रूप में किसी भी शिड्युल्ड बैंक द्वारा "निदेशक - दीपस्तंभ और दीपपोत, मुंबई" के पक्ष में मुंबई में देय जमा करना है। बयाना जमा तकनीकी बोली खोलने की तिथि से तीन माह तक की अवधि के लिए वैध होगी। बयाना जमा (डी डी) की मूल प्रति निश्चित दिन और समय पर या उससे पहले इस कार्यालय में रजिस्टर्ड/ स्पीड पोस्ट या व्यक्तिगत रूप से अन्यथा अपलोड की गई बोली को अस्वीकार/ अयोग्य समझा जाएगा। किसी भी डाक देरी पर विचार नहीं किया जाएगा। सूक्ष्म, लघु और मध्यम उद्यमों (एमएसएमई) के साथ पंजीकृत फ़र्म भी ईएमडी जमा करें।
14. कार्य का विवरण निविदा दस्तावेज में उपलब्ध हैं हैं जो केन्द्रीय सार्वजनिक खरीद (सीपीपी) पोर्टल वेबसाइट <http://eprocure.gov.in/eprocure/app> & dgll.nic.in से डाउनलोड किया जा सकता है और बोली केवल <http://eprocure.gov.in/eprocure/app> पर निविदा जमा करने की अंतिम तारीख और समय तक ऑनलाइन प्रस्तुत करना है। प्रत्यक्ष रूप से निविदा दस्तावेज की बिक्री लागू नहीं है।
15. बोली खंड 3.1 में परिभाषित पात्रता मानदंड को पूरा करने वाले सभी पात्र बोलीदाताओं के लिए खुला है। बोलीदाताओं से अनुरोध है कि वे ध्यान दें और खुद को संतुष्ट करें कि वे पात्रता मानदंड को पूरा कर रहे हैं।
16. तकनीकी मूल्यांकन एक समिति द्वारा किया जाएगा। तकनीकी मूल्यांकन पूर्ण होने पर, तकनीकी रूप से योग्य बोलीदाताओं की कमर्शियल बोली समिति द्वारा खोली जाएगी। सफल बोलीदाता तय करने में दीपस्तंभ और दीपपोत निदेशालय का निर्णय अंतिम और बोलीदाताओं पर बाध्यकारी होगा।
17. बोलीदाता पात्रता मानदंड, बोलीदाताओं के लिए निर्देश, तकनीकी आवश्यकता, काम की गुंजाइश, अनुबंध की सामान्य और विशेष शर्तें और बोली के संबंध में अन्य सभी दस्तावेजों को ध्यान से पढ़ें। बोलीदाता उपरोक्त सभी मद्दों को ध्यान में रखकर उसकी दूरें उद्धृत करें।
18. निदेशक- दीपस्तंभ और दीपपोत, मुंबई बोली स्वीकार करने या खारिज करने के लिए खुद के लिए अधिकार सुरक्षित रखते हैं। बोलीदाता उद्धृत दरों पर ही निष्पादन करने के लिए बाध्य रहेगा।
19. प्रत्यक्ष अथवा परोक्ष रूप से, बोली के संबंध में प्रचार सख्त वर्जित है। बोलीदाताओं द्वारा प्रचार के सहारे प्रस्तुत बोलियों को सरसरी तौर पर अस्वीकार कर दिया जाएगा।
20. बोलीदाताओं जिसका निकट के रिश्तेदारों दीपस्तंभ और दीपपोत महानिदेशालय में लेखाकार के रूप में या किसी राजपत्रित अधिकारी के रूप में किसी भी क्षमता में तैनात है उनको बोली के लिए अनुमति नहीं दी जाएगी।
21. संभावित बोलीदाता दीपस्तंभ और दीपपोत महानिदेशालय या पत्तन, पोत परिवहन और जलमार्ग मंत्रालय में किसी भी राजपत्रित अधिकारी के निकट रिश्तेदार जो किसी भी क्षमता में उनके साथ कार्यरत हैं या बाद में उसके द्वारा नियोजित किए गए हैं ऐसे व्यक्तियों के नाम भी सूचित करेगा। बोलीदाता द्वारा इस हालत के किसी भी उल्लंघन के लिए उसे अयोग्य घोषित किया जाएगा।

- निकट रिश्तेदारका मतलब है पत्नी, पति, माता-पिता, दादा-दादी, बच्चों और पोते, भाइयों और बहनों, चाचा, चाची और कानून के अनुरूप।
22. बोलीदाता को बोली के संबंध में किसी भी विचौलियों (एजेंटों आदि) को किए गए या किए जाने वाले भुगतान का खुलासा करना होगा।
23. भारत सरकार का कोई भी राजपत्रित अधिकारी सरकारी सेवा से संन्यास लेने के बाद दो वर्ष की अवधि के लिए सरकार की लिखित रूप में पूर्व अनुमति के बिना एक ठेकेदार के रूप में कार्य करने के लिए अनुमति नहीं है। बोली प्रस्तुत करने से पहले या ठेकेदार की सेवा में नियुक्ति से पूर्वोक्त अगर किसी भी समय किसी भी ठेकेदार या उसके किसी कर्मचारी एसे मिलते हैं जिसने भारत सरकार की अनुमति प्राप्त नहीं की है, तो अनुबंध रद्द किया जा सकता है।
24. किसी भी निर्धारित तिथि को भारत सरकार द्वारा एक छुट्टी के रूप में घोषित किए जाने की घटना में निर्दिष्ट गतिविधियों को अगले कार्य दिवस पर नियत समय पर ले जाया जाएगा।
25. निविदा आमंत्रण सूचना सभी प्रकार के शुद्धिपत्र/परिशिष्ट/निविदा की शर्तें इत्यादि संविदा/ अनुबंध दस्तावेज़ का एक हिस्सा होगा।

निदेशक /Director

भारत के राष्ट्रपति की ओर से और के लिए

For and on behalf of the President of India



भारत सरकार
पत्तन, पोत परिवहन और जलमार्ग मंत्रालय
दीपस्तंभ और दीपपोत निदेशालय
'दीपभवन', एम.जी.मार्ग, घाटकोपर (पूर्व),
मुंबई 400077 (महाराष्ट्र)

Govt. of India
Ministry of Ports, Shipping & Waterways
DIRECTORATE OF LIGHTHOUSES & LIGHTSHIPS
'Deep Bhavan', M. G. Road, Ghatkopar
(East), Mumbai 400077 (Maharashtra)



दूरभाष / Telephone : 022 - 25068390 फ़ैक्स / FAX : 022 - 25060996 ई-मेल / E-mail : dte-mum@gov.in

CM-MUM-03016(05)/1/2020-CIVIL

August 07 ,2025

NOTICE INVITING e-TENDER

For & on behalf of President of India, Director of Lighthouses & Lightships, Mumbai invites online bids under two bid system (Part I-Technical bid, Part II- Commercial bid) from reputed contractors/ firms of appropriate category registered with CPWD, state PWD, MES, Railways, BSNL etc. or with any other Central/ State Government / Public sector organizations for the below work.

Sr. No.	Details	Description
1	Name of work	Reconstruction of power house, office, store room and general maintenance of Tolleshwar Lighthouse station.
2	Location	Tolleshwar Lighthouse Post - Anjanvel, Tal. - Guhagar, Dist.- Ratnagiri, Maharashtra, Pin -415634
3	Estimated Cost put to tender	₹ 96,86,148/- (Inclusive GST)
4	Earnest Money Deposit	₹ 1,93,800 /- in the form of Demand Draft / Fixed Deposit Receipt (FDR) of any scheduled Bank in favour of "Director of Lighthouses and Lightships – Mumbai" payable at Mumbai. Earnest Money Deposit shall be valid for a period of Three months from the date of opening of Technical bid
5	Tender Fees	₹ 0/-
6	Bid Document Download & Bid Submission Period	07/08/2025 (1600hrs) to 28/08/2025 (1600 hrs)
7	Pre bid meeting	Pre-bid Meeting 14/08/2025at 1600 hrs (prebid meeting will be at Deep Bhavan, M G Road Mumbai-400077.)
8	Date of Opening of Technical Bids	02/09/2025(1600 hrs)
9	Last date of submission of EMD (in original)	01/09/2025(1600 बजे तक)
10	Bid validity	90 days from the date of opening of Technical bid.
11	Period of completion of work	09 Months (from the date of award of contract)
12	Eligibility criteria	(1) Registered Licensed contractors, firms of appropriate category registered with Central Govt. / State Govt. / Municipal Corporation etc having tender limits equivalent or more than the estimated cost.

		2) Proof of satisfactory completion of similar works – (Civil Construction, Repair and Maintenance work) during last 7 years. (a) Three similar works, each of value not less than 40% of the estimated cost put to tender. (b) Two similar works, each of value not less than 60% of the estimated cost put to tender. (c) One similar work of value not less than 80% of the estimated cost put to tender. (As per Section-III)
		3) Documentary evidence of annual turnover of last three year
		4) Permanent Account Number

EMD

13. Earnest Money Deposit amounting to **₹1,93,800** /- shall be furnished in the form of Account Payee Demand Draft/ Fixed Deposit receipt (FDR) of any scheduled Bank in favour of “Director of Lighthouses and Lightships – Mumbai” payable at Mumbai. Earnest Money Deposit shall be valid for a period of three months from the date of opening of Technical bid. The originals of EMD should be submitted to this office by Registered / Speed Post or by personally on or before the schedule day & time otherwise the uploaded bid shall be deemed to be rejected/ disqualified. Any postal delay will not be entertained. **Agencies/ Bidders registered with MSME, NSIC etc are also required to submit the required EMD.**
14. The details of work are available in the tender document which can be downloaded from website Central Public Procurement (CPP) Portal <http://eprocure.gov.in/eprocure/app> & dgl.nic.in and the bid is to be submitted online only on <http://eprocure.gov.in/eprocure/app> upto last date and time of submission of tender. **Sale of physical tender document is not applicable.**
15. Bidding is open to all eligible Bidders meeting the eligibility criteria as defined in clause 3.1. Bidders are requested to note and satisfy themselves that they fulfill eligibility criteria.
16. Technical evaluation shall be carried out by a Committee. On completion of technical evaluation, the Commercial Bids of the technically qualified bidders shall be opened by the Committee. The decision of the Directorate of Lighthouses & Lightships, Mumbai in deciding the successful bidder shall be final and binding on the bidders.
17. The Bidder shall carefully read the Eligibility Criteria, Instructions to Bidders, Technical requirement, Scope of work, General & Special conditions of contract and all other documents in connection with the Bid. The Bidder shall quote his rates, keeping all above points in mind.
18. The Director of Lighthouses & Lightships, Mumbai reserves the right to himself for accepting or rejecting the bid. Bidder shall be bound to perform the same at the quoted rates.
19. Canvassing whether directly or indirectly, in connection with Bid is strictly prohibited. The Bids submitted by the Bidders, who resort to canvassing, shall be summarily rejected.
20. Those Bidders whose near relatives are posted as accountant or as a Gazetted Officer in any capacity in the Directorate General of Lighthouses & Lightships shall not be permitted to Bid. The prospective Bidder shall also intimate the names of persons who are working with him in any capacity or subsequently employed by him, who are near relative to any gazetted officer in the DGLL or in the MINISTRY OF PORTS, SHIPPING AND WATERWAYS. Any breach of this condition by the bidder shall render him ineligible. By the term ‘near relative’ is meant wife, husband, parents & grand parents, children & grand children, brothers & sisters, uncles, aunts & corresponding in laws.

21. The bidder shall disclose any payment made or proposed to be made to any intermediaries (agents etc) in connection with the bid.
22. No Gazetted Officer of Government of India is allowed to work as a contractor without prior permission of the Govt. of India in writing for a period of two years after his retirement from government service. The contract is liable to be cancelled if either the contractor or any of his employees is found at any time to be such a person who had not obtained the permission of Govt. of India as aforesaid, before submission of the Bid or engagement in the contractor's service.
23. In the event of any specified date, being or declared as a holiday by the Government of India, the specified activities shall take place on or up to the appointed time on the next working day.
24. The Notice Inviting Bids, all types of corrigendum /addendums /terms and condition of tender etc. shall form the part of contract document.

Director
For and on behalf of the President of India



भारत सरकार
पत्तन, पोत परिवहन और जलमार्ग मंत्रालय
दीपस्तंभ और दीपपोत निदेशालय
'दीपभवन', एम.जी.मार्ग, घाटकोपर (पूर्व),
मुंबई 400077 (महाराष्ट्र)

Govt. of India
Ministry of Ports, Shipping & Waterways
DIRECTORATE OF LIGHTHOUSES & LIGHTSHIPS
'Deep Bhavan', M. G. Road, Ghatkopar
(East), Mumbai 400077 (Maharashtra)



दूरभाष / Telephone : 022 - 25068390 फ़ैक्स / FAX : 022 - 25060996 ई-मेल / E-mail : dte-mum@gov.in

अनुभाग/SECTION-II

बोलीदाताओं के लिए निर्देश /INSTRUCTIONS TO BIDDERS

2.1 For & on behalf of President of India, the Director, Directorate of Lighthouses & Lightships, Mumbai, invites Online Bids under two bid system (two cover system, Part I -Technical bid, Part II- Commercial bid) eligible firms/agencies having experience and satisfactory execution and completion.

Tender forms can be downloaded from the web site <http://eprocure.gov.in/eprocure/app>.

This section of the bidding document provides the information necessary for bidders to prepare online responsive bids, in accordance with the requirements of the Director, Directorate of Lighthouses & Lightships, Mumbai. It also provides information on online bid submission, opening, evaluation and contract award. It is necessary for the bidders to go through the instructions contained in this section before submission of bid.

The bidders are required to submit soft copy of their bid electronically on the Central Public Procurement (CPP) Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

2.2 पंजीकरण/REGISTRATION:

- (i) Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal by using the "Online bidder enrollment" option available on the home page. Enrolment on the CPP Portal is free of charge.
- (ii) During enrolment / registration, the bidders should provide the correct/true information including valid email-id & mobile no. All the correspondence shall be made directly with the contractors/bidders through email-id provided.
- (iii) As part of the enrolment process, the bidders will be required to choose a unique user name and assign a password for their accounts.
- (iv) For e-tendering possession of valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) is mandatory which can be obtained from SIFY/TCS/nCode/eMudra or any Certifying Authority recognized by CCA on e-Token/ Smartcard.
- (v) Upon enrolment on CPP Portal for e-tendering, the bidders shall register their valid Digital Signature Certificate with their profile.
- (vi) Only one valid DSC should be registered by a bidder. Bidders are responsible to ensure that they do not lend their DSC to others which may lead to misuse and should ensure safety of the same.
- (vii) Bidders can then log into the site through the secured login by entering their user ID/password and the password of the DSC / eToken.

2.3 बोली की तैयारी /PREPARATION OF BID

- (i) For preparation of bid, Bidders shall search the tender from published tender list available on site and download the complete tender document and should take into account corrigendum, if any published, before submitting their bids. After selecting the tender document same shall be moved to the 'My favourite' folder of bidders account from where bidder can view all the details of the tender document.
- (ii) Bidder shall go through the tender document carefully to understand the documents required to be submitted

as part of the bid. Bidder shall note the number of covers in which the bid documents have to be submitted, the number of documents – including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.

(iii) Any clarifications, if required, may be obtained online through the tender site, or through the contact details given in the tender document.

(iv) Bidder should get ready in advance with the bid document to be submitted in PDF/xls/rar/zip/dwf/jpg formats as indicated in the tender document/schedule. If there is more than one document, they can be clubbed together using zip format.

(v) Bidder can update well in advance, the documents such as experience certificates, annual report, PAN and other details etc., under “My Space” option, which can be submitted as per tender requirements. This will facilitate the bid submission process faster by reducing upload time of the bid.

2.4 बोली प्रस्तुत करना /SUBMISSION OF BID

(i) Bidder should log into the site well in advance for bid submission so that he/ she upload the bid in time i.e. on or before the bid submission time.

(ii) Bidder should prepare the Tender Fee and EMD as per the instructions specified in the NIT/ tender document. The originals of Tender Fee and EMD should be submitted to the Director, Directorate of Lighthouses & Lightships, Mumbai on or before the last date & time of bid submission. Bidder should send the EMD & Tender fee through post/Courier Service. The Director, Directorate of Lighthouses & Lightships, Mumbai shall not be responsible for any delay or loss, due to postal/Courier Service. The details of the Demand Draft/ Fixed Deposit receipt (FDR), physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time, otherwise the uploaded bid shall liable be to be rejected.

(iii) While submitting the bids online, the bidder shall read the terms & conditions (of CPP portal) and accept the same in order to proceed further to submit their bid.

(iv) Bidder shall select the payment option as offline to pay the Tender Fee/ EMD and enter details of the Demand Draft/ Fixed Deposit receipt (FDR).

(v) Bidder shall digitally sign and upload the required bid documents one by one as indicated in the tender document.

(vi) Bidders shall note that the very act of using DSC (Digital Signature Certificate) for downloading the tender document and uploading their offer is deemed to be a confirmation that they have read all sections and pages of the tender document without any exception and have understood the complete tender document and are clear about the requirements of the tender document.

(vii) Bidder shall note that each document to be uploaded for the tender should be less than 2 MB. If any document is more than 2MB, it can be reduced through zip/rar and the same can be uploaded. For the file size of less than 1 MB, the transaction uploading time will be very fast.

(viii) Utmost care shall be taken for uploading Schedule of work and any change/modification of the price schedule shall render it unfit for bidding. Bidders shall download the Schedule of work i.e. Section VII, in XLS format and save it without changing the name of the file. Bidder shall quote their rates in figures in green background cells, thereafter save and upload the file in financial bid cover (Price bid) only. If the Schedule of Rate file is found to be modified by the bidder, the bid will be rejected. The bidders are cautioned that uploading of financial bid elsewhere i.e. other than in cover 2 will result in rejection of the tender.

(ix) Bidders shall submit their bid through online e-tendering system to the Tender Inviting Authority (TIA) well before the bid closing date & time (as per Server System Clock). The TIA will not be held responsible for any sort of delay or the difficulties faced during the submission of bids online by the bidders at the eleventh hour.

(x) After the bid submission (i.e. after Clicking “Freeze Bid Submission” in the portal), the bidder shall take print

out of system generated acknowledgement number, and keep it as a record of evidence for online submission of bid, which will also act as an entry pass to participate in the bid opening.

- (xi) Bidder should follow the server time being displayed on bidder's dashboard at the top of the tender site, which shall be considered valid for all actions of requesting, bid submission, bid opening etc., in the e-tender system.
- (xii) All the documents being submitted by the bidder would be encrypted using PKI (Public Key Infrastructure) encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bid is maintained using the secured Socket Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done.
- (xiii) The bidder should ensure/see that the bid documents submitted should be free from virus and if the documents could not be opened due to virus during tender opening, the bid is liable to be rejected.
- (xiv) Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid openers public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- (xv) The bidder should logout of the tendering system using the normal logout option available at the top right hand corner and not by selecting the (X) exit option in the browser.
- (xvi) Any query relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
- (xvii) Any query relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk.

2.5 प्रस्ताव प्रस्तुत करना /SUBMISSION OF OFFER

The tender shall be submitted online in two cover system duly scanned and digitally signed by the authorized representative of the bidder as follows:

A) लिफाफा/Cover -1 (तकनीकी बोली /TECHNICAL BID)

Online bid should be submitted containing copy of the following documents in Cover-1 as documentary proof, for fulfilling qualifying criteria, failing which the offer shall be summarily rejected.

- i) Scanned Copy of Earnest Money Deposit from any Scheduled Bank in the form of Demand Draft/Fixed Deposit receipt (FDR)/ in favour of Director of Lighthouses and Lightships, Mumbai payable at Mumbai.)
- ii) Scanned Copy of Tender fee (Non-refundable) in the form of Demand Draft from any Scheduled Bank drawn in favour of "Director of Lighthouses & Lightships, Mumbai payable at Mumbai.
- iii) Scanned copies of proof for eligibility as per Para 3.1 Eligibility Criteria of Section III.
- iv) Scanned copy of tender acceptance letter (Annexure II).

If the Cover-1 i.e. technical bid does not contain any of the above-mentioned documents or contains incomplete or unsuitable technical details, then the offer shall be deemed liable to rejection/ disqualification. The respective Cover-2, i.e. Price Bid of the technically disqualified offers shall not be opened. The bidders are cautioned that divulging of any price information in Cover-1 (Technical Bid) will result in rejection of their tender.

B) लिफाफा -2/Cover-2 (मूल्य बोली)/PRICE BID)

The Cover-2 shall contain the price bid in the enclosed "Schedule of work (Bill of Quantity)" as per the excel format enclosed at Section-VIII (Uploaded Separately).

- i) Price bid in excel format (schedule of work/ Bill of quantity) provided along with this tender shall only be used for quoting price/offer.

ii) It may please be noted that this part shall not contain any term & conditions. Any condition given in the price bid (cover-2) shall be sufficient cause for rejection of bid.

iii) The quoted rates shall be written in figures in enclosed Proforma (schedule of work/ Bill of quantity) which should be duly digitally signed by the bidder or his authorized person.

2.6 BID SUBMISSIONS AND OPENING: -

2.6.1 The bid should be submitted online at website <http://eprocure.gov.in/eprocure/app> only, by the due date and time. The Server Date & Time as appearing on the website <http://eprocure.gov.in/eprocure/app> shall only be considered for the cut- off date and time for submission of bids. Offers sent through post, telegram, fax, telex, e-mail, and courier or by any other mode will not be considered. In case of date of opening is declared, as holiday tender will be opened on next working day at same time.

2.6.2 Only those bidders shall be considered qualified by the Director, Directorate of Lighthouses & Lightships, Mumbai, who submit requisite EMD and documents, accept all the terms & conditions of the Tender document unconditionally and meet the qualifying requirement stipulated in the Tender document. The decision of the Director, Directorate of Lighthouses & Lightships, Mumbai shall be final and binding in this regard.

2.6.3 The bidder shall bear all cost associated with the preparation and submission of its bid and the Director, Directorate of Lighthouses & Lightships, Mumbai will in no case be responsible or liable for this cost, regardless of the conduct or outcome of the tendering process.

2.6.4 The prospective bidder requiring any clarification of the tender document may obtain the same online/ offline from Tender Inviting Authority, Director, Directorate of Lighthouses & Lightships, Mumbai, Deep Bhavan, M G Road Ghatkopar (East), Mumbai-400077 in person or otherwise in writing so as to reach this office on or before pre-bid date and time.

2.7 PRE-BID MEETING

A pre-bid meeting to provide clarifications before the last date for submission of bids will be arranged at Directorate of Lighthouses & Lightships, 'Deep Bhavan', M. G. Road, Ghatkopar (East), Mumbai 400077. The bidders who may like to participate shall have to attend the meeting at their own expenses.

2.8 EVALUATION OF BIDS:

2.8.1 The DLL will determine whether each bid is of acceptable quality, is generally complete and is substantially responsive to the tender document. For the purposes of this determination, a substantially responsive bid is one that conforms to all the terms, conditions & specifications of the tender document without any deviations, objections, conditionality or reservation.

2.8.2 Price Bid/Schedule of Rates shall be evaluated based on the lowest cost.

2.8.3 If a bid is not substantially responsive; it will be rejected by the DLL and may not subsequently be made responsive by the bidder by correction of the non-conformity.

2.8.4 The bid that does not meet minimum acceptable standards of completeness, consistency and details will be rejected for non-responsive.

2.8.5 If the present performance of the bidder in a current contract for any major work is unsatisfactory as certified by the any authority of the relevant work, the offer of the bidder will be summarily rejected without assigning any reasons thereof.

2.8.6 The bidders shall only quote the rates Excess/ Less percentage in the schedule of Rates in excel format provided alongwith this tender.

2.8.7 The rates shall only be quoted in Indian Currency and if quoted in other currency, the offer will be liable to be rejected.

2.8.8 Conditional offers are liable for rejection.

2.8.9 The Price bid(s) of the prospective bidders, who fulfils the techno-commercial requirement of the bid(s), shall be evaluated further.

2.8.10 Any effort by a bidder to influence the DLL in the process of examination, clarification, evaluation and comparison of tenders, and in decisions concerning award of contract, may result in rejection of the bidder's tender.

2.9 NOTIFICATION OF AWARD

2.9.1 The bidder whose bid has been accepted will be notified for the award by the DLL prior to expiration of the Bid validity period through the work order.

2.9.2 The Bidder shall promptly check their e-mailbox registered with CPP Portal for receipt of any information/clarification/ correspondence in respect of their bid. The DLL shall not be responsible for non-receipt/failure of e-mail to the bidders.

2.9.3 If any of the information furnished by the bidder is found to be incorrect at any stage, the bid/ contract is liable to be rejected/terminated and the EMD/ Performance Security will be forfeited.

2.9.4 DLL reserves the right to cancel the tender without assigning any reason thereof.

2.9.5 Tenders from those tenderers who have not submitted their offer as per NIT will not be considered.

Director
For and on behalf of the President of India



भारत सरकार
पत्तन, पोत परिवहन और जलमार्ग मंत्रालय
दीपस्तंभ और दीपपोत निदेशालय
'दीपभवन', एम.जी.मार्ग, घाटकोपर (पूर्व),
मुंबई 400077 (महाराष्ट्र)

Govt. of India
Ministry of Ports, Shipping & Waterways
DIRECTORATE OF LIGHTHOUSES & LIGHTSHIPS
'Deep Bhavan', M. G. Road, Ghatkopar
(East), Mumbai 400077 (Maharashtra)



दूरभाष / Telephone : 022 - 25068390 फ़ैक्स / FAX : 022 - 25060996 ई-मेल / E-mail : dte-mum@gov.in

[अनुभाग/SECTION-III](#)

विस्तृत निविदा सूचना/DETAILED TENDER NOTICE

3.1 Eligibility Criteria

3.1.1 For & on behalf of President of India, the Director, Directorate of Lighthouses & Lightships, Mumbai invites Online Bids under two bid system (two cover system, Cover I -Technical bid, Cover- II Commercial bid) from bonafide, reputed contractors having experience and satisfactory execution and completion of similar works giving details of performance report regarding Time Over run with/without levy and quality of work, total cost of project etc. in any Central /State /UT Government Organization during last **seven years ending on the last day of the month previous to the one in which, the tenders are invited**, and should produce documentary evidence with monetary value:-

i. Three similar completed works, each costing not less than the amount equal to 40% of estimated cost.

or

ii. Two similar completed works, each costing not less than the amount equal to 60% of estimated cost.

or

iii. One similar completed work of aggregated cost not less than the amount equal to 80% of the estimated cost.

and

Minimum average turnover shall be 30% of estimate value for each year in last three years ending 31/03/2024. The each financial year shall be reckoned for this purpose from 01 April to 31 March.

(a) Proof of satisfactory execution and completion of similar nature of civil works during last seven years-

Bidder should have taken up and satisfactorily executed and completed **Three similar works**, each of value not less than **₹ 38.74 Lakhs** or **Two similar works**, each of value not less than **₹58.12 Lakhs** or **One similar work**, each of value not less than **₹ 77.49 Lakhs**

Similar nature of civil works means “Civil Construction, Repair and Maintenance work”

(Cover-1): The bidder is required to furnish detailed information with regard to their financial capacity, technical capability and experience. Following details with supporting documents shall be required to be uploaded in the web site along with the technical bid,

1. Earnest Money Deposit
2. A valid registration certificate/ license of appropriate category with specified tender limits.
3. Permanent Account Number (PAN).
4. Copy of Income Tax Return for the past three financial years (2021-2022, 2022-2023, 2023-2024)/ Assessment years (2022-2023 & 2023-24,2024-25).
5. Copy of Annual turn-over of the Company/ Profit & Loss statement/ Auditor's report during the last 3 consecutive financial years ending on 31st March, 2024. Average Annual Financial Turnover on consecutive works should not be less than 30% of estimated cost (i.e Rs

29,05,844/-) during the last 3 consecutive financial years ending 31/03/2025 certified by chartered accountant

6. Proof of satisfactory execution and completion of similar works during last seven years ending on the last day of the month previous to the one in which, the tenders are invited
7. GST Registration Certificate.
8. Tender acceptance letter on Company Letter Head (Annexure-III)
9. An undertaking that bid is unconditional as per proforma Annexure IV.
10. Bid securing declaration- Annexure- V
11. Notarised affidavit regarding Non-Black listing of the firm as per Annexure- VII
12. Declaration regarding No relatives employed in the organisation as per Annexure –VIII
13. All other documents required in section VIII consisting of evaluation criteria of technical bid.

The bid shall be rejected if the documents are found false or fake. If at a later stage, the documents submitted are found false or fake, the Contract shall be terminated and performance bank guarantee forfeited. Also, the Contractor shall be fined as deemed appropriate by the employer for breach of trust. **Bidders are advised to upload the required documents only. Uploading of large document will result in more compression of documents and documents will illegible.**

- b. Work experience certificate as a sub contractor shall not be considered.

3.2 आवश्यक आवश्यकताएं /Essential Requirements

3.2.1 It will be essential requirement that the prospective bidder shall be fully equipped & capable to carry out the work as prescribed in the bid.

3.3 The work is to be carried out in **Tolkeshwar Lighthouse Station**

<p>Head Lightkeeper Tolkeshwar Point Lighthouse Post - Anjanvel, Tal. - Guhagar, Dist.- Ratnagiri, Maharashtra, Pin – 415634</p>

The intending bidders who wish to seek any clarification may contact the office of Director of Lighthouses & Lightships, Deep Bhavan, M.G. Road, Opp. Satyam Complex, Ghatkopar (East), Mumbai – 400 077 **on or before the prebid meeting date and time**. A bidder shall be deemed to have full knowledge of the site conditions whether he visits the site or not.

3.4 A bid must be accompanied by an earnest money as mentioned in Section -I in the form of A/C Payee Demand draft/Fixed Deposit Receipt from any Nationalized Indian/ RBI Approved Banks drawn in favour of **“Director of Lighthouses & Lightships-Mumbai” payable at Mumbai.**

3.5 The successful bidder shall be required to submit a Performance Guarantee **equivalent to 5% (Five Percent) of the contract value** within the specified time period before issue of work order and **The Security Deposit @5% (Five Percent) shall be deducted from each RA bill including Final Bill.** The Performance Guarantee shall be in the form of Fixed Deposit Receipt issued by any nationalized bank OR Bank Guarantee in the prescribed form **(Annexure-II)**. The Performance Guarantee will be released on satisfactory completion of the work. **The Security Deposit @5 % of the contract value shall be released after 6 months maintenance period/Defect Liability period from the actual date of completion of the work.** In case the contractor fails to deposit the said performance guarantee within the specified period including the extended period if any, the Earnest Money deposit of the contractor shall be forfeited automatically without any notice to the contractor. The E.M.D. of the successful bidder shall be refunded after receipt of performance guarantee and award of contract.

The Director of Lighthouses and Lightships reserves the right to decide the eligibility of the bidders. Bidder shall send “**Authority Letter**” with an attested specimen signature of their representative, deputed by them to be present at time of opening of bids.

- 3.6 The time allowed for carrying out the complete work is **09 Months (from the date of award of contract)** from the date of issue of work order.
- 3.7 The DLL reserves the right to accept any bid or reject all the bids without assigning any reason whatsoever.
- 3.8 The DLL reserves to himself the right of accepting the whole or any part of the bid, and bidder shall be bound to perform the same at the quoted rates.
- 3.9 Canvassing whether directly or indirectly, in connection with bid is strictly prohibited & the bids submitted by the bidder who resort to canvassing shall be rejected.
- 3.10 Bid submitted without earnest money or any conditional bid shall be treated as non-responsive and shall be summarily rejected.
- 3.11 Those bidders whose near relatives are posted as accountants or as an officer in any capacity between the grades of Director/ Deputy Director/ Assistant Executive Engineer or Assistant Engineer or Executive officer Accounts in the Directorate of Lighthouses & Lightships shall not be permitted to bid. The prospective bidder shall also intimate the names of persons who are working with him in any capacity or subsequently employed by him & who are near relative to any Gazetted officer in the DLL or in the MINISTRY OF PORTS SHIPPING AND WATERWAYS, Road Transport & Highways. Any breach of this condition by the bidder/contractor shall render him ineligible. By the term ‘near relative’ is meant wife, husband, parents and grand parents, children & grand children, brothers and sisters, uncles, aunts & corresponding in laws.
- 3.12 No engineer of gazetted rank or other gazetted officer employed in engineering or administrative duties in an engineering Department in Govt of India is allowed to work as a contractor for a period of two years after his retirement from Government service, without the prior permission of the Government of India in writing. The contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission from Govt. of India as aforesaid, before submission of the bid or engagement in the contractor’s service.
- 3.13 The bids shall remain valid for a period **of 90 days** from the date of opening of technical bid. The full EMD will be forfeited by the Director if
 - 3.13.1 The bidder withdraws his bid during bid validity period or
 - 3.13.2 The bidder makes any modification in the terms & conditions of the bid at his own or
 - 3.13.3 The successful bidder fails to sign the agreement within the specified time.
- 3.14 In the event of any specified date, being or declared as a holiday by the Government of India, the same will take place on or up-to appointed time on next working day.
- 3.15 At any time prior to the deadline for submission of bids, the Director may for any reason, whether at his own initiative or in response to a clarification requested by a prospective Bidder, modify the bid documents by amendment.
- 3.16 In order to afford prospective Bidder reasonable time in which to take the amendment into account in preparing the bids, the Director may, at his discretion, extend the deadline as necessary for the submission of bids.
- 3.17 No amount shall be payable to the Contractor for the items for which rate is not quoted by the bidder, and the contractor shall be bound to execute such items free of cost on zero amount.

- 3.18 The bidder shall be deemed to have satisfied himself before bidding as to the correctness and sufficiency of his bid for the works and of the rates & amount quoted in the Bill of Quantity, which rates & amounts, shall, except as otherwise provided, cover all his obligations under the contract and all matters and things necessary for the proper completion of the work as aforesaid in accordance with good practices and recognized principles.
- 3.19 In case of any bid where unit rate of any item appears unrealistic, such bid shall be considered unbalanced and non-responsive. The Director may ask for providing satisfactory explanation for such unrealistic quoted rate. If bidder is unable to provide satisfactory reply with supporting analysis of rates, the bid shall be rejected.
- 3.20 Each bidder shall submit only one bid for this work. A bidder who submits or participates in more than one bid for this work will stand disqualified.
- 3.21 The bidder shall not be under a declaration of in-eligibility for corrupt & fraudulent practices in any Government Department or organization in India or abroad.
- 3.22 The bidder shall sign a declaration under the official secret Act, 1923, for maintaining secrecy of the bid documents, drawings or other records connected with the work given to them. The unsuccessful bidder shall return all the drawings given to them to the office of the Director.
- 3.23 To assist in the examination, evaluation and comparison of bids, the Director may, at his discretion, ask the bidder for any clarification of its bid. All the response to any requests for clarification shall be in writing and no change in the prices or substance of the bid shall be sought, offered or permitted.

निदेशक /Director

भारत के राष्ट्रपति की ओर से और के लिए

For and on behalf of the President of India



भारत सरकार
पत्तन, पोत परिवहन और जलमार्ग मंत्रालय
दीपस्तंभ और दीपपोत निदेशालय
'दीपभवन', एम.जी.मार्ग, घाटकोपर (पूर्व),
मुंबई 400077 (महाराष्ट्र)

Govt. of India
Ministry of Ports, Shipping & Waterways
DIRECTORATE OF LIGHTHOUSES & LIGHTSHIPS
'Deep Bhavan', M. G. Road, Ghatkopar
(East), Mumbai 400077 (Maharashtra)



दूरभाष / Telephone : 022 - 25068390 फ़ैक्स / FAX : 022 - 25060996 ई-मेल / E-mail : dte-mum@gov.in

अनुभाग/SECTION-IV

अनुबंध की सामान्य शर्तें / GENERAL CONDITIONS OF CONTRACT

1. सामान्य/General

- (i) The Contractor shall satisfy himself in regard to the nature of work to be done, its scope etc. the condition of contract, specifications, drawings etc. included in the tender papers.
- (ii) Before quoting of tender, the contractor shall inspect the site and fully acquaint himself about the condition in regard to accessibility of site, nature and the extent of ground, working conditions including stacking of materials, installation of T & P, conditions effecting accommodation and movement of labour etc. required for the satisfactory execution of the work contract. No claim what so ever on such account shall be entertained by the department in any circumstances.
- (iii) For any items of work, the tendered rate shall hold to include all items as are clearly necessary for the proper execution of the work, notwithstanding the fact that any special items may not have been included in the specifications or shown on the drawings.

Percentage Rate Tender:

1. The Contractor shall fill up the BoQ form, stating at what percentage below/above (in figures as well as in words) the total estimated cost given in Schedule of Quantities he/ She will carryout & complete the work.
2. The tender submitted shall be treated as invalid if: -
 - a. The contractor does not quote percentage above/below on the total amount of tender.
 - b. The percentage above/below is not quoted in figures & words both, on the total amount of tender.
 - c. The percentage quoted above/below is different in figures & words.
3. Tenders, which propose any alteration in the work specified in the said form of invitation to tender, or in the time allowed for carrying out the work, or which contain any other conditions of any sort including conditional rebates, will be summarily rejected.
4. In case the lowest tendered amount (estimated cost + amount worked on the basis of percentage above/below) of two or more contractors is same, such lowest contractors will be asked to submit sealed revised offer in the form of letter mentioning percentage above/below on estimated cost of tender as the case may be, but the revised percentage quoted above/below on tendered cost should not be higher than the percentage quoted at the time of submission of tender.
5. The lowest tender shall be decided on the basis of revised offers. In case any of such contractor refuses to submit revised offer, then it shall be treated as withdrawal of his tender before acceptance and 50% of earnest money shall be forfeited.
6. If the revised tendered amount of two or more contractors received in revised offer is again found to be equal, the lowest tender, among such contractors, shall be decided by draw of

lots in the presence of Director or the Tender opening committee, the lowest contractors those have quoted equal amount of their tenders.

7. In case all the lowest bidders those have quoted same tendered amount, refuse to submit revised offers, then the tender will be recalled after forfeiting 50% of EMD of each contractor. Contractor(s), whose earnest money is forfeited because of non-submission of revised offer, shall not be allowed to participate in the re-tendering process of the same work.

2. सामग्री और कारीगरी/ Material & Workmanship

Material & workmanship required for the execution of the work have been laid down in the accompanying specifications pertaining to the work. The work shall in every respect conform to these specifications & shall be carried out & completed to the entire specifications of the Director of Lighthouses & Lightships, Mumbai (hereinafter) called “the Director” and/or his representative for the time being who shall have full powers to reject at any stage of construction any or all materials and/or workmanship which may appear to him/them to fall short of the requirement of the aforesaid specifications, drawings etc. or which may appear to him/them to be faulty.

- (i) Any item not included in these specifications shall be executed with material & workmanship of the first quality. The Contractor shall, in case of doubt, refer, in respect of such work, to the Director or his representative.
- (ii) In the event of any doubt occurring in the execution of the work either in respect of specifications or in respect of drawings or for any reason whatsoever the contractor shall refer the matter to the Director through his representative or direct, as conditions may warrant.

3. अतिरिक्त कार्य/Extra Work

No claim for extra work shall be entertained except where such extra work has been authorized in writing by the Director or his representative.

4. निर्णीत हर्जाना /Liquidated Damage

- (i) The contractor shall state in his bid the time within which he undertakes to complete the work in every respect. The time so stated by him shall commence from the date of receipt of the letter informing him of the acceptance of the bid and instructing him to commence work.
- (ii) Throughout the stipulated period of contract, the work shall be proceeded with all due diligence. Time being deemed to be the essence of contract on the part of the contractor, the contractor shall pay a sum equal to **0.50% PER WEEK** of the cost of the work contract value or such amount as may be specified by the Director (whose decision in writing shall be final) of delay to be computed on per day basis. The maximum amount shall not more than 10%.
- (iii) Should it appear to the Director at any time during the progress of the work, that the progress is unsatisfactory he shall have full powers to procure materials from authorized supplier of materials and to employ such extra labour as he may consider necessary for the proper progress of the work and shall debit the cost of such labour and materials to the contractor, which shall be the first charge upon bills of the contractor.

5. अनुबंध का रद्द करना/Rescindment of Contract

If at any stage during construction, the Contractor ceases work or refuses to fulfill his part of the contract, the Director shall have power to rescind the contract, of which rescission notice in writing to the Contractor under the hand of the Director shall be conclusive evidence of the Contractor’s default & the whole of the earnest money paid by the Contractor together with the whole of the security deposit / performance bak guarantee shall stand forfeited & be absolutely at the disposal of Government. The

Director shall, moreover, have the power to adopt any measure for the completion of the work in any manner he may choose. In the event of such a course being adopted any expenses, which may be incurred in excess of the sum which would have been paid to the Contractor, of the whole work had been executed by him (for the amount in such cases, the certificate in writing of the Director shall be final & conclusive) shall be realized from the Contractor from any money which may be due to him under this or any other contract or otherwise. In the case when the contract has been rescinded under the aforesaid provision the Contractor shall have no claim for compensation for any loss sustained by him for reasons of his having purchased any material or having entered into any engagement or made any advance on account of the execution of the work. But on the other hand, the Director shall be entitled to take possession of any or part of any material which has been brought by the Contractor to the site of work, in which event the Contractor shall be entitled to such payment therefore as may be considered reasonable by the Director.

If the successful bidder shall not submit the performance guarantee within stipulated time or non/poor performance of the contractor shall leading to the rescindment of contract agreement, and The Director, Directorate of Lighthouses and Lightships reserves the right to cancel/terminate the contract at any time and the contractor shall be blacklisted for period of **03 years**.

6. Termination:

- (i) In the event of the firm going into liquidation or winding up his business or making arrangements with his creditors, this agreement shall stand ipso facto terminated from the date of occurrence of such event. This termination shall be without prejudice to any other rights to remedies, available to the DLL under this agreement.
- (ii) In the event of any breach of terms and conditions of this Agreement or Un-satisfactory performance of the contractor, the Director shall have the right to terminate the Agreement forthwith by giving 30 days notice. The decision of the Director under this clause shall be final. The performance guarantee submitted by the firm also be forfeited on failure to execute the work as per terms and conditions of this tender document and contractor shall be black listed for three years.

7. समापन का समय/Time of Completion

- (i) The Contractor shall give an undertaking to complete the work in every respect within the stipulated time period.
- (ii) Throughout the stipulated period of contract, the work shall be proceeded with all due diligence. Time bond deemed to be the essence of contract on the part of the Contractor, the Contractor shall pay a sum equal to **0.50% PER WEEK** of the cost of the work contract value or such smaller amount as may be specified by the Director (whose decision in writing shall be final) computed for each day that the work remains incomplete beyond the stated period. Provided always that the entire amount of compensation to be paid under the provisions of this clause shall not exceed 10%.
- (iii) Should it appear to the Director at any time during the progress of the work, that the progress is unsatisfactory he shall have full powers to employ such extra labour as he may consider necessary for the proper progress of the work & shall debit the cost of such labour to the Contractor, which shall be the first charge upon bills of the Contractor.

8. समय अवधि का विस्तार/Extension of Time

If the Contractor shall desire an extension of time for the completion of the work on the grounds of having been unavoidable hindered in its execution or on any other ground, he shall apply in writing to the Director within 15 days of the date of the hindrance on account of which he desires such extension. If in the opinion of the Director which shall be final, the grounds shown by the Contractor are reasonable the Director may authorize such extension of time as in his opinion may be necessary or proper.

9. कार्य का रखरखाव/ Maintenance of Work

The Contractor shall maintain the Work for a period of **6 months** from the date of completion & shall at the end of this period be called upon to make good, at his own expenses, any defects in material or workmanship which may appear on the satisfactory conclusion of the maintenance period, the Contractor shall be returned the security deposit in accordance with the rules. The Earnest Money Deposit of the successful bidder either shall be refunded after award of contract and submission of contract performance guarantee. The performance guarantee shall be released after successful completion of the work to the satisfaction of the Director or his representative & subject to the final measurement of the work having been taken by a person authorized by the Director & accepted by the Contractor.

10. भुगतान/ Payment

Running account bills for the completed work / part of work will be prepared by engineer authorized by the Director & accepted by the contractor based on the actual measurements of the work taken jointly. With the representative of the contractor, the decision to prepare bill, will be taken considering quantum of work executed and demand / request by the contractor. The bills, measurement books are to be signed by the contractor / representative at the time of preparation of bill before submission to the office.

No advance payment shall be made to the firm. The payment to the firm shall be made in stages on pro-rata basis, as per the work done/items of work executed/completed as per Schedule of work. Interim/part payments shall be made to the firm, for the quantity and items of works executed and completed, as approved by the Director. The 5% performance guarantee shall be refunded to the firm/agency only after the completion of the work in all respects, recording final measurements and effecting final payment to the firm.

अंतिम बिल भुगतान / FINAL BILL PAYMENT: -

The final bill shall be settled on receipt of completion certificate duly signed by the concerned officer. The acceptance of payment of the final bill by the Contractor would indicate that he will have no further claim in respect of the work executed.

All claims of the contractor shall be settled within 03 months from the date of payment of the final bills. Any claims of the contractor beyond the said period will not be entertained.

11. Arbitration:

All the matter in connection with or arising out of the contract, to be unacceptable and is disputed, shall be referred to Dispute Redressal Committee (DRC). No party shall be represented before the Dispute Redressal Committee by an advocate/legal counsel etc. If the Dispute Redressal Committee (DRC) fails to give its decision within a period of 60 days extendable by 30 days by consent of both the parties or any party is dissatisfied with the decision of the Dispute Redressal Committee (DRC), then either party may within a period of 30 days from the receipt of the decision of Dispute Redressal Committee (DRC), go for appointment of arbitrator under intimation to the other party. It is a term of contract that each party invoking arbitration must exhaust the aforesaid mechanism of settlement of claims/disputes prior to invoking arbitration.

Wherever the Arbitral Tribunal consists of three Arbitrators, the contractor shall appoint one arbitrator within 30 days of making request for arbitration or receipt of request by DLL for appointment of arbitrator, as the case may be, and two appointed arbitrators shall appoint the third arbitrator who shall act as the Presiding Arbitrator.

Disputes or difference shall be referred for adjudication through arbitration by a Tribunal having sole arbitrator. The requirements of the Arbitration and Conciliation Act, 1996 (26 of 1996) and any further statutory modifications or re-enactment thereof and the rules made there under and for the time being in

force shall be applicable. It is a term of this contract that the party invoking arbitration shall give a list of disputes with amounts claimed, if any, in respect of each such dispute along with the notice for appointment of arbitrator and giving reference to the decision of the DRC. It is also a term of this contract that any member of the Arbitration Tribunal shall be a Graduate Engineer with experience in handling public works engineering contracts at a level not lower than Chief Engineer (Joint Secretary level of Government of India). This shall be treated as a mandatory qualification to be appointed as arbitrator.

Parties, before or at the time of appointment of Arbitral Tribunal may agree in writing for fast track arbitration as per the Arbitration and Conciliation Act, 1996 (26 of 1996) as amended in 2015.

Subject to provision in the Arbitration and Conciliation Act, 1996 (26 of 1996) as amended in 2015 whereby the counter claims if any can be directly filed before the arbitrator without any requirement of reference by the appointing authority, the arbitrator shall adjudicate on only such disputes as are referred to him by the appointing authority and give separate award against each dispute and claim referred to him and in all cases where the total amount of the claims by any party exceeds Rs. 1,00,000/- the arbitrator shall give reasons for the award. It is also a term of the contract that if any fees are payable to the arbitrator, these shall be paid as per the Act.

The venue of the arbitration shall be such place as may be fixed by the Arbitral Tribunal in consultation with both the parties preferably at Mumbai. Failing arbitration in solving the dispute, high court of Mumbai/courts at Mumbai alone shall have the jurisdiction for all aggrieved parties.

12. Grounds for Banning / Blacklisting of Agency:

Banning / Blacklisting of Business with an agency may be ordered by the Director under following grounds. The decision of the Director shall be final and binding of the contractor.

Sr. No	Grounds	Suspension of Banning and Period Revocation
1	If there are security consideration, including questions of loyalty of the agency to the state.	Minimum three years and maximum five years.
2	If the agency is bankrupt or insolvent or being dissolved or has resolved to be wound up or proceedings for winding up or dissolution have been institute	Minimum one year or till situation improves whichever is later.
3	If there is strong justification for believing that the Directors, Proprietors, Partners, Employee(s), Representatives or owner of the agency have been either jointly or severally guilty of malpractices such as bribery, corruption, fraud including submission of fake false or forged documents / certificates, Duplication of inspection stamps, pilferage, substitution of Tenders, bid rigging / price rigging, interpolations, substitution of materials in lieu of materials supplied by DLL or its client and other violation including misrepresentation of facts.	Minimum three years and maximum five years.
4	If the agency has deliberately violated and circumvented the provision of labour law/ regulations/ rules, safety norms or other statutory requirements	Minimum one years and maximum five years.
5	If the Agency has parted with, leaked or provided confidential proprietary information of DLL or its client given to the agency only for its use (in discharge of his	Minimum three years and maximum five years.

	obligations against an order) to any third party without prior consent of DLL	
6	The agency uses intimidation/ threatening or brings undue outside pressure on DLL or its officials in acceptance /performance of the job under the contract.	Minimum three years and maximum five years.
7	Withdrawal of bids after opening of Technical Bid.	Minimum one year and maximum three years.
8	Withdrawal of bid after price opening/ refusal to accept order.	Minimum one year and maximum three years.
9	Failure to execute and complete the work after of work as per contract agreement	Minimum three years and maximum five years

13 विनिर्देशों में और डिजाइनों में बदलाव/ Alterations in specifications & in designs

The Director or his representative shall have powers to make any alteration in or addition to the original specifications, drawings, designs etc. which may appear him to be necessary or advisable during the progress of the work & the Contractor shall be bound to carry out the work in accordance with such alterations. Such alterations shall not invalidate the contract. Any additional work which the Contractor may be directed to do in the manner specified above as part of the work shall be carried out by the Contractor on the same conditions in all respects on which he agreed to do the main work & at the same rate as are specified in the tender for the main work. The time for the completion of the work shall be extended in the proportion that the additional work bears to the original contract work & the certificate of the Director shall be conclusive as to such proportions. If the additional work includes any class of work for which no rate is specified under this contract, the Contractor shall within 7 days of the date of the receipt of the order to carry out the additional work, inform the Director of the rate at which he is prepared to undertake such class of work & if the Director does not agree to this rate, he shall give notice in writing & be at liberty to cancel his order to carry the such work, & arrange to carry it out in such a manner as he may consider advisable. If, however, the Contractor shall have commenced work in regard thereto before the rates have been fixed, he shall only be entitled in respect of the work carried out or expenses incurred by him prior to the determination of the rate as aforesaid according to such rate or rates as shall be fixed by the Director whose decision shall be final.

14. कार्य का निरीक्षण/ Inspection of Work

Work under execution or execution in respect of this contract shall at all items be open to inspection & supervision of the Director & his subordinates; & the Contractor shall at all times, for which reasonable notice shall be given, be himself present to receive orders & instructions or have a responsible agent on the work for the purpose.

15. Subletting

The contract shall not be assigned or sublet the work without the written approval of the Director.

16. श्रमिक/Labour

- No child labour as per the prevailing rules shall be employed.
- The Contractor shall not pay less than fair wage to labourers engaged by him on the work.

स्पष्टीकरण/Explanation

- (i) **“Fair Wage”** means wage prescribed by the Central or State Government for the district in which the work is done.
 - (ii) The contractor shall, notwithstanding the provisions of any contract to the contrary, cause to be paid a fair wage to labourers indirectly engaged on the work, including any labour engaged by his sub-contractors in connection with the said work as if the labourers had been immediately employed by him.
 - (iii) In respect of all labour directly or indirectly employed in the works for the performance of the contractor’s part of this agreement, the contractor shall comply with the labour regulations made by the central and State Government from time to time in regard to payment of wage, wage period, deductions from wages, recovery of wages not paid and deductions unauthorisedly made, maintenance of wage register, wage card, publication of scale of wages and other terms of employment, Inspection and submission of periodical returns and all other matters of a like nature.
 - (iv) The Director shall have the right to deduct from the moneys due to the contractor, any sum required or estimated to be required for making the loss suffered by a worker or workers by reasons of non-fulfilment of the conditions of contract for the benefit of the workers, non-payment of wages or of deductions made from his or their wages which are not justified by their terms of the contract or non-observance of the regulations.
 - (v) Under the provision of the Minimum Wages Act’1948 and the Minimum wages(central) Rules’1950 the contractor is bound to allow, or cause to be allowed to the labourers directly or indirectly employed in the works one day’s rest for six days continuous work and pay wages at the same rates as for duty. In the event of default, the Director shall have the right to deduct the sum or sums not paid on account of wages for weekly holidays to any labourer and pay the same to the persons entitled thereto from any money due to the contractor.
 - (vi) The regulations aforesaid shall be deemed to be a part of this contract and any breach thereof shall be deemed to be a breach of the contract.
- (c) The contractor shall at his own expense provide or arrange for the provision of footwear and gloves for any labour doing cement mixing or placing work (the contractor has undertaken to execute under this contract) to the satisfaction of the Director or his representative and on his failure to do so the Government shall be entitled to provide the same and recover the cost thereof from the contractor.
- (d) The contractor shall submit, by the 4th and 19th of every month, to the Director true statement showing in respect of the second half of the preceding month and the first half of the current month respectively, (1) The number of labourers employed by him on the work and their wages (2) their working hours, (3) the wages paid to them (4) the accidents that occurred during the said fortnight showing the circumstances under which they happened and the extent of damage and injury caused by them and (5) the number of female workers who have been allowed maternity benefit according to clause 13-(f) and the amount paid to them. On his failure to do so, the contractor shall be liable to pay to Government a sum not exceeding Rs.50/- for each default or materially incorrect statement. The decision of the Director shall be final and the amount so levied shall be deducted from any bill due to the contractor.
- (e) Maternity Benefit: Rules for female workers employed by contractor, Leave and pay during leave shall be regulated as follows: -
2. Leave
 - (i) In case of delivery: Maternity leave not exceeding 8 weeks, 4 weeks upto and including the day of delivery and 4 weeks following that day.
 - (ii) In case of miscarriage: Upto 3 weeks from the date of miscarriage.
 3. Pay

- (i) In the case of delivery: Leave pay during maternity leave will be at the rate of the woman's average daily earnings calculated on the total wages earned on the days when full time work was done during a period of three months immediately preceding the date on which she gives notice that she expects to be confined or at the rate of seventy-five paise a day whichever is greater.
 - (ii) In the case of miscarriage: Leave pay at the rate of average daily earnings calculated on the total wages earned on the days when full time work was done during a period of three months immediately preceding the date of such miscarriage.
4. Conditions for the grant of maternity leave: No maternity leave benefit shall be admissible to a woman unless she has been employed for total period not less than 6 months immediately preceding the date on which she proceeds on leave.
5. In respect of all labourers directly or indirectly employed in the work for the performance of the contractor's part of the agreement, the contractor shall at his own expense arrange for safety provisions as per clause-17 in respect of safety code and shall at his own expense provide for all facilities in connection therewith. In case the contractor fails to make arrangement and provide necessary facilities as aforesaid he shall be liable to pay a sum (penalty) of Rs.50/- for each default and in addition the officer-in-charge shall be at liberty to make arrangement and provide facilities as aforesaid and recover the cost incurred in that behalf from the contractor.

15. श्रमिक के लिए आवास/Housing for Labour

(a) The contractor(s) shall at his/their labour with a sufficient number of huts (herein after referred to as the camp) of the following specifications on a suitable plot of land to be approved by the Director or his representative and to his satisfaction.

- (i) The minimum height of each hut at the eye level shall be 7' and the floor area to be provided will be at the rate of 30.00sqft for each member of the worker's family staying with the labourer.
- (ii) The contractor(s) shall in addition construct suitable cooking places having a minimum area of 6' x 5' adjacent to the hut for each family.
- (iii) The contractor(s) shall also construct temporary latrines and urinals for the use of the labourers each on the scale of not less than four per each one hundred of the total strength, separate latrines and urinals being provided for women.
- (iv) The contractor(s) shall construct sufficient number of bathing and washing places, one unit for every 25 persons residing in the camp. These bathing and washing places shall be suitably screened.
- (v) All the huts shall have wall of sun-dried or burnt bricks laid in mud mortar or other, suitable local materials as may be approved by the Director or his representative. In case of sun dried bricks, the walls should be plastered with mud gobi on both sides. The floor may be katcha but plastered with mud gobi and shall be at least 6" above the surrounding ground. The roofs shall be laid with thatched or any other materials as may be approved by the Director or his representative and the contractor shall ensure that throughout the period of their occupation the roofs remain watertight.
- (vi) The contractor(s) shall provide each hut with proper ventilation.
- (vii) All doors, windows, and ventilators shall be provided with suitable leaves for security purposes.
- (viii) There shall be kept an open space of at least 8 yards between the rows of huts which may be reduced to 20 ft. according to the availability of site with the approval of Director or his representative, back-to-back construction will not be allowed.

(b) पानी की आपूर्ति/ Water Supply:

- (i) The contractor(s) shall provide adequate supply of water for the use of labourers. The provision shall not be less than two gallons of pure and whole some water per head per day for drinking purpose and three gallons of clean water per head per day for bathing and

washing purposes. Where piped water supply is available supply shall be at stand post and where supply is from wells or river tanks which may be of metal or masonry, shall be provided.

- (ii) The contractor shall also at his own cost make arrangements for laying pipe lines for water supply to his/their labour camp from existing mains available and shall pay all fees and charges
- (c) The sites selected for the camp shall be high ground, removed from Jungle.
- (d) Disposal of Excreta: The contractor shall make necessary arrangements for disposal of excreta from latrines by trenching or incineration which shall be according to the requirements laid down by the local/health authorities. If trenching or incineration is not allowed the contractor shall make arrangements for removal of excreta through the Municipal Committee/Authority and informed it about the number of labourers employed so that arrangement may be made by such committee/authority for removal of the excreta. All charges on this account shall be borne by the contractor and paid direct by him to the Municipal Authority. The contractor shall provide one sweeper for every 8 seats in case of dry system.
- (e) Drainage: The contractor shall provide efficient arrangement for draining away the sullage water so as to keep the camp neat and tidy.
- (f) Lighting: The Contractor shall make necessary arrangements for keeping the camp area sufficiently lighted to avoid accident to the workers.
- (g) Sanitation: The contractor(s) shall make arrangements for conservancy and sanitation in the labour camps according to the rules of the Local Public Health and Medical Authorities.
- (h) Removal of hutting accommodation: The contractor(s) shall require his/their labourers to vacate and remove from all site all labour hutting accommodation immediately on finishing the work which shall be deemed to have been completed only upon the performance of this condition.

16. कार्य के स्थल पर श्रमिकों के लिए स्वास्थ्य और स्वच्छता की व्यवस्था का संरक्षण /Protection of health and sanitary arrangements for workers at work place:-

(a) Definitions:

- (i) "Workplace" means a place at which at an average fifty or more workers are employed in connection with construction work.
- (ii) "Large workplace" means a place at which at an average 500 or more workers are employed in connection with construction work.

(b) First Aid:

- (i) At every workplace, there shall be maintained in readily accessible place first-aid appliances including an adequate supply of sterilized dressings and sterilized cotton wool. The appliances shall be kept in good order and in large workplace; they shall be placed under the charge of a responsible person who shall be readily available during working hours.
- (ii) At large workplaces, where hospital facilities are not available within easy distance of the works, First Aid Box shall be established and be run by a trained compounder.
- (iii) Where large workplaces are remote from civil or regular hospitals, an indoor ward shall be provided with one bed for every 250 employees.
- (iv) Where large workplaces are situated in cities, town or in their suburbs and no beds are considered necessary owing to the proximity of city or town hospitals, an ambulance shall be provided to facilitate removal of urgent cases to these hospitals. At other workplaces, some conveyance facilities such as a car, shall be kept readily available to take injured persons suddenly taken seriously ill, to the nearest hospitals. The contractor(s) shall bear the full hospital charges for the treatment and convalescence of the injured workers and workers taken ill.

(c) Drinking water:

- (i) In every workplace, there shall be provided and maintained at suitable places, easily accessible to labour, a sufficient supply of water fit for drinking.
- (ii) Where drinking water is obtained from an intermittent public water supply, each workplace shall be provided with storage where such drinking water shall be stored.
- (iii) Every water supply storage shall be at a distance of not less than 50 feet from any latrine, drain or other source of pollution. Where water has to be drawn from an existing well, which is within such proximity of latrine, drain or any other source of pollution, the well shall be properly chlorinated before water is drawn from it for drinking. All such wells shall be entirely closed in and be provided with a trap-door which shall be dust and water proof.
- (iv) A reliable pump shall be fitted to each covered well, the trap door shall be kept locked and opened only for cleaning or inspection which shall be done at least once a month.

(d) Washing and Bathing Places:

- (i) Adequate washing and bathing places shall be provided, separately for men and women.
- (ii) Such places shall be kept in clean and drained condition.

(e) Latrines and Urinals for Women: If women are employed separate latrines and urinals, screened from those for men and marked in the vernacular in conspicuous letters "For women only" shall be provided on the scale laid in rule.

(f) Those for men shall be similarly marked "for men only". A poster showing the figure of a man and a woman shall also be exhibited at the entrance of latrines for each sex. There shall be adequate supply of water close to the urinals and latrines.

(g) Latrines and Urinals: Except in workplaces provided with water-flushed latrines, connected with a waterborne sewage system, all latrines shall be provided with receptacles on dry-earth system which shall be cleaned at least four times daily and at least twice during working hours and kept in a strictly sanitary condition. The receptacles shall be barred inside and outside at least once a year.

(h) Construction of Latrines: The inside walls shall be constructed of masonry or some suitable heat-resisting non-absorbent material and shall be cement washed inside and outside at least once a year. The dates of cement-washing shall be noted in a register maintained for this purpose and kept available for inspection.

(i) Provision of shelters during rest: At every workplace there shall be provided, free of cost, two suitable sheds one for meals and the other for rest, for the use of labour. The height of the shelter shall not be less than 3 metres from the floor level to the lowest part of the roof.

(j) Creche:

(i) At every workplace, at which 50 or more women workers are ordinarily employed, there shall be provided two huts for the use of children under the age of 6 years, belonging to such women. One hut shall be used for infants' games and play and the other as their bed-room. The huts shall not be constructed on a lower standard than the following:

Thatched roofs; Mud floors and walls; Planks spread over the mud floor and covered with matting.

The huts shall be provided with suitable and sufficient openings for light and ventilation. There shall be adequate provision of sweepers to keep the places clean. There shall be two Dais in attendance. Sanitary utensils shall be provided. The use of the hut shall be restricted to children their attendants and mothers of the children.

(ii) Where the number of women workers is more than 25 but less than 50, the contractor shall provide at least one hut and one Dai to look after the children of women workers.

(iii) The size of crèche or crèches shall vary according to the number of women workers.

- (iv) The crèche or crèches shall be properly maintained and necessary equipment like toys etc. shall be provided.

17. श्रमिक के लिए आराम, मनोरंजन /Rest, Recreation and Feeding facilities for Labour:

- (i) The contractor shall at his own cost provide his labour with facilities in the form of a Canteen (mobile or otherwise) for obtaining adequate meals and beverages at appropriate times, in case there is a demand from the labour.
- (ii) The canteen shall comply with the National laws and regulations of Health in regard to cleanliness, type of meals provided etc; and operate on a 'no profit basis'.
- (iii) At places where it is difficult for the labour to obtain food stuffs, the contractor shall make adequate provision for food stuffs to be sold to his labour on a 'no profit basis'. The facility should be provided near the area where residential accommodation has been provided by the contractor for the labour.
- (iv) The workers should in no case be under any obligation to participate in the utilization of any of the facilities provided.

18. सुरक्षा संहिता/Safety Code

- (i) Suitable scaffolds should be provided for workmen for all works that cannot safely be done from the ground, or from solid construction except such short period work as can be done safely from ladders. When a ladder is used; an extra mazdoor shall be engaged for holding the ladder & if the ladder is used for carrying materials as well, suitable footholds & handholds shall be provided on the ladder & the ladder shall be given an inclination not steeper than $\frac{1}{4}$ to 1 ($\frac{1}{4}$ horizontal & 1 vertical).
- (ii) Scaffolding or staging more than 12' above than ground or floor, swung or suspended from an overhead support or erected with stationary support shall have a guard rail properly attached bolted braced & otherwise secured at least 3 ft. high above the floor or platform of such scaffolding or staging & extending along the entire length of the outside & ends thereof with only such openings as may be necessary for the delivery of materials. Such scaffolding or staging shall be so fastened as to prevent from awaying from the building or structure
- (iii) Working platform, gangways & stairways should be so constructed that they should not sag unduly or unequally & if the height of the platform or the gangway or the stairway is more than 12 ft. above ground level or floor level, they should be closely boarded. Should have adequate with & should be suitably fenced, as described in (ii) above.
- (iv) Every opening in the floor of a building or in a working platform shall be provided with suitable means to prevent the fall of persons on materials by providing suitable fencing or railing whose minimum height shall be 3'0".
- (v) Safe means of access shall be provided to all working platforms & other working places. Every ladder shall be securely fixed. No portable single ladder shall be over 30 feet in length while the width between side rails in rung ladder shall be in no case less than 11 $\frac{1}{2}$ " for ladder upto & including 10 feet in length. For longer ladder this width should be increased at least $\frac{1}{4}$ " for each addition foot or length. Uniform steps spacing shall not exceed 12".

Adequate precaution shall be taken to prevent danger from electrical equipment. No materials on any of the sites of works shall be so stocked or placed as to cause danger or inconvenience to any person or the public. The Contractor shall also provide all necessary fencing & lights to protect the public from accident & shall be bound to bear the expenses of defence of every suit, action or other proceedings at law that may be brought by any person for injury sustained owing to neglect of the above precautions & to pay any damages & costs which may be awarded in any such suit, action or proceedings to any such persons or which may be with the consent of the Contractor to be paid to compromise any claim by any such person.

- (vi) Excavation and Trenching: All trenches, four feet or more in depth, shall at all times be supplied with at least one ladder for each 100 feet in length or fraction thereof. Ladder shall be extended from bottom of the trench to at least 3' above the surface of the ground. The side of the trenches which are 5' or more in depth shall be stepped back to give suitable slopes, or securely held by timber bracing, so as to avoid the danger of sides to collapse. The excavated materials shall not be placed within 5 feet of the edge of the trench or half of the depth of the trench whichever is more. Cutting shall be done from top to bottom. Under no circumstances undermining or undercutting shall be done.
- (vii) Demolition: Before any demolition work is commenced and also during the process of the work: -
- (i) All roads and open areas adjacent to the work site shall either be closed or suitably protected:
 - (ii) No electric cable or apparatus which is liable to be source of danger over a cable or apparatus used by the operator shall remain electrically charged.
 - (iii) All practical steps shall be taken to prevent danger to persons employed from risk of fire or explosion or flooding. No floor, roof, or other part of the building shall be so over loaded with debris or materials as to render it unsafe.
- (viii) All necessary personal safety equipment as considered adequate by the Director or his representative should be kept available for the use of the persons employed on the site and maintained in condition suitable for immediate use and the contractor should take adequate steps to ensure proper use of equipment by those concerned.
- (a) Workers employed on mixing asphaltic materials, cement and lime mortars shall be provided with protective footwear and protective goggles.
 - (b) Those engaged in white washing and mixing or stacking of cement bags or any materials which is injurious to the eyes shall be provided with protective goggles.
 - (c) Those engaged in welding works shall be provided with welder's protective eye-shields.
 - (d) Stone breakers shall be provided with protective goggles and protective clothing, and seated at sufficiently safe intervals.
 - (e) When workers are employed in sewers and manholes, which are in use, the contractor shall ensure that the Manhole covers are opened and are ventilated at least for an hour before the workers are allowed to get into the Man-holes, and the man-holes so opened shall be cordoned off with suitable railing and provided with warning signals or boards to prevent accident to the public.
 - (f) The contractor shall not employ men below the age of 18 and women on the work of painting with products containing lead in any form. Whenever men above the age of 18 are employed in the work of lead painting, the following precautions should be taken:-
 - I. No paint containing lead or lead products shall be used except in the form of paste or ready made paint.
 - II. Suitable face masks should be supplied for use by the workers when paint is applied in the form of spray or a surface having lead paint dry rubbed and scrapped.
 - III. Overalls shall be supplied by the contractors to the workmen and adequate facilities shall be provided to enable the working painters to wash during any cessation of work.
- (ix) When the work is done near any place where there is risk of drowning, all necessary equipments should be provided and kept ready for use and all necessary steps taken for prompt rescue of any person in danger and adequate provision should be made for prompt first-aid treatment of all injuries likely to be sustained during the course of the work.
- (x) Use of Hoisting machines and tackle including their attachments, anchorage, and supports shall conform to the following standard or conditions: -

1. (a) These shall be of good mechanical construction sound materials and adequate strength and free from patent defect and shall be kept in good repair and in good working order.

(b) Every rope used in hoisting or lowering materials or as a means of suspension shall be of durable quality and adequate strength and free from patent defects.

2. Every crane driver of hoisting appliance/operator shall be properly qualified and no person under an age of 21 years should be in-charge of any hoisting machine including any scaffold/winch or give signals to the operator.

3. In case of every hoisting machine and of every chain ring hook, shackle, swivel and pulley block used in hoisting or lowering or as means of suspension, the safe working load shall be ascertained by adequate means. Every hoisting machine and all gear referred to above shall be plainly marked with the safe working load. In case of a hoisting machine having a variable safe working load, each safe working load of the conditions under which it is applicable shall be clearly indicated. No part of any machine or of any gear referred to above in this paragraph shall be loaded beyond the safe working load except for the purpose of testing.

4. In case of departmental machines, the safe working load shall be notified by the Engineer-in-Charge, As regards contractor's machines, the contractor shall notify the safe working load of the machine to the Engineer-in-Charge whenever he brings any machinery to site of work and get it verified by him.

- (xi) Motors, Gearing, Transmission, Electric Wiring and other dangerous parts of hoisting appliances should be provided with such means as will reduce to the minimum risk or accidental descent of the load, adequate precautions should be taken to reduce to the minimum risk of any part of a suspended load becoming accidentally displaced. When workers employed on electrical installation which are already energized, insulating mats, wearing apparel, such as Gloves, Sleeves, and boots as may be necessary should be provided. The workers should not wear any rings, watches and carry keys or other materials which are good conductors of electricity.
- (xii) These safety provisions should be brought to the notice of all concerned by display on a Notice Board at a prominent place at the workspot. The persons responsible for compliance of the safety code shall be named therein by the contractor.
- (xiii) To ensure effective enforcements of the rules and regulations relating to safety precautions, the arrangements made by the contractor shall be open to inspection by Director or his representatives.
- (xiv) Notwithstanding the above clause from (i) to (xiii) there is nothing in these to exempt the contractor from the operations of any other Act or Rule in force in the Republic of India.

19. दुर्घटनाओं की जिम्मेदारी /Responsibility for accidents:

- (i) **The contractor shall be responsible for any accidents or damages to the work during construction and he shall restore and make good such injury at his own expenses. Contractor shall also place required First Aid Kits at site.**
- (ii) In every case in which by virtue of provisions of section 12, sub-section 1 of the workmen's compensation Act, 1923, Government is obliged to pay compensation to a workman employed by the contractor, in execution of the work, Government will recover from the contractor the amount of compensation so paid and without prejudice to the rights of Government under section 12 sub-section 2 of the said Act. Government shall be at liberty to recover such amount or any part thereof by deducting it from his earnest money, security deposit or from any sum due by Government to the contractor. Government shall not be bound to contest any claim made against it under section 12, sub section 1 of the said Act except on the written request of the contractor and upon his giving to Government full security for all cost for which Government might become liable in consequence of contest of such a claim.

20. मचान आदि/Scaffolding etc.

The contractor shall supply at his own cost materials (except such materials, if any, as may be in accordance with contract be supplied from the officer-in-charge), plant, tools, appliances, implements, ladders, cordage, tackle, scaffolding & temporary works requisite or proper for the execution of the work, whether original, altered or substituted & whether included in the specification or other documents forming part of the contract or referred to in these conditions or not, or which may be necessary for the purpose of satisfying or complying with the requirements of the officer-in-charge to any matter as to which under these conditions, he is entitled to be satisfied, or which he is entitled to require together with carriage therefore to & from the work. The Contractor shall also supply without charge the requisite number of persons with the means & materials necessary for purpose of setting out works & counting weighting & assisting in the measurement or examination at any time & from time to time of the work or materials. Failing his so doing, the same may be provided by the Officer-in-Charge at the expenses of the Contractor & the expenses may be deducted from any money due to the Contractor under the contract or from his security deposit or the proceeds of sale thereof or a sufficient portion thereof.

21. देय राशि की वसूली/ Recovery of sums due

Whenever any claim for the payment of a sum of money arises out of or under this contract against the Contractor, the President of India shall be entitled to recover such sum by appropriating, in part or whole, from the amount of the security deposit, laying with the Director. In the event of the security deposit being insufficient then the balance or the total sum recoverable, as the case may be, shall be deducted from any sum then due or any other contract with the President of India. Should this sum be not sufficient to cover the full amount recoverable the Contractor shall pay to the President of India on demand the remaining balance due.

22. मुआवजा/A Set-off

Any sum of money due & payable to the Contractor (including security deposit returnable to him) under this contract may be appropriated by the purchaser or Government or any other person or persons contracting through the Director of Lighthouses & Lightships, Mumbai & set off against any claim of money arising out of or under any other contract made by the Contractor with the purchaser or Government or such other person or persons.

23. दिवाला और अनुबंध का उल्लंघन/ In solvency & breach of contract

The Director may at any time by notice in writing summarily determine the contract without compensation to the Contractor in any of the following events, that is to say: -

- (i) If the Contractor being an individual or if a firm any partner in Contractor's firm shall at any time be adjudged involvement or shall have a receiving order or order for administration or his estate made against him or shall take any proceedings for liquidation or composition under any insolvency act fro the time being in force or make any conveyance or assignment of his effects or enter into any arrangement with this creditors or suspend payment or if the firm be dissolved under the Partnership Act or,
- (ii) If the Contractor being company shall pass a resolution or the court shall make an order for the liquidation of its affairs or a Receiver or Manager on behalf of the debenture-holders shall be appointed or circumstances shall have arisen which entitled the court of debenture-holders to appoint a Receiver or Manager; or
- (iii) If the Contractor commits any breach of this contract not herein specified provided for: provided always that such determination shall not prejudice any right of action or remedy which shall have occurred or shall accrue thereafter to the President of India & provided also that the Contractor shall be liable to pay the President of India for any extra expenditure he is thereby put up.

24. ठेकेदार को देय पैसे पर ब्याज/Interest on money due to the Contractor

The Contractor shall not be entitled to interest or damages for loss of interest upon not be entitled to interest or damages for loss of interest upon any amounts lodged as deposits with this department or upon payments in arrears or upon any balance which may, on the final settlement on his account, be due to him.

25. In the event of any question, dispute or difference arising under this condition or in connection with this contract (except as to any matters the decision of which is specially provided for by these conditions) the same shall be referred to the sole arbitration of the Director or some other person appointed by him. It will be no objection that the arbitrator is a Government servant that he had to deal with the matters to which the contract relates or that in the course of duties as a Government servant he has expressed views on all or any of the matters in dispute or difference. The award of the arbitrator shall be final and binding on the parties to this contract. The arbitrator may with the consent of the parties enlarge the time from time to time for making & publishing award.

The arbitrator may with the consent of the parties enlarge the time from time to time for making and publishing award.

Subject as aforesaid the Arbitration Act, 1940 & the rules there under & the statutory modification thereof for the time being in force shall be deemed to apply to the arbitration proceedings under this clause

The Engineer-in charge shall within 15 days of receipt of such communication intimate in writing his approval or otherwise of such a representative to the contractor. Any such approval may at any time be withdrawn and in case of such withdrawal. The contractor shall appoint another such representative according to the provisions of this clause. Decision of the tender accepting authority shall be final and binding on the contractor in this respect. Such a principal technical representative shall be appointed by the contractor soon after receipt of the approval from Engineer-in-charge and shall be available at site within fifteen days of start of work.

If the contractor (or any partner in case of firm / company) who himself has such qualification, it will not be necessary for the said contractor to appoint such a principal technical representative but the contractor shall designate and appoint a responsible agent to represent him and to be present at the work whenever the contractor is not in a position to be so present. All the provisions applicable to the principal technical representative under the clause will also be applicable in such a case to contractor or his responsible agent. The principal technical representative and / or the contractor shall on receiving reasonable notice from the Engineer-in-charge or his designated representatives(s) in charge of the work in writing or in person or otherwise, present himself to the Engineer-in-Charge and /or at the site of work, as required, to take instructions. Instructions given to the principal technical representative or the responsible agent shall be deemed to have the same force as if these have been given to the contractor.

The principal technical representative and/or the contractor or his responsible authorized agent shall be actually available at site at least two working days every week, these days shall be determined in consultation with the Engineer-in-charge as well as fully during important stages of execution of work, during recording of measurement of works and whenever so required by the Engineer-in-Charge or his designated representative in the site book and shall affix his signature in token of noting down the instructions and in broken of acceptance of measurements.

There shall be no objection if the representative /agent looks after more than one work and not more than three works in the same station provided these details are disclosed to the Engineer-in-charge and he shall be satisfied that the provisions and the purpose of this clause are fulfilled satisfactorily.

If the Engineer-In-charge, whose decision in this respect is final and binding on the contractor, is convinced that so much technical representative or agent is effectively appointed or is effectively attending or fulfilling the provision of the clause, a recovery shall be effected from the contractor and the decision of the Engineer-in-charge as recorded in the sited order book and measurement recorded in Measurement Books shall be final and binding on the contractor.

Further if the contractor fails to appoint a suitable technical representative or responsible agent and if such appointed persons are not effectively present or do not discharge their responsibilities

satisfactorily, the Engineer-in Charge shall have full powers to suspend the execution of the work until such date as a suitable agent is appointed and the contractor shall be held responsible for the delay so caused to the work. The contractor shall submit a certificate of employment of the technical representative/ responsible agent along with every on-account bill/final bill and shall produce evidence if at any time so required by the Engineer-in-charge.

The contractor shall provide and employ skilled, semiskilled and unskilled labour as is necessary for proper and timely execution of the work.

The contractor shall provide and employ on the site only such technical assistants as are skilled and experienced in their respective fields and such foremen and supervisory staff as are competent to give proper supervision of the work.

The Engineer-in Charge shall be at liberty to subject to the require the contractor to remove from the works any person who in his opinion misconducts himself, or is incompetent or negligent in the performance of his duties or whose employment is otherwise considered by Engineer-in-charge to the undesirable. Such person shall not be employed again at works site without the written permission of the Engineer-in-Charge and persons so removed shall be replaced as soon as possible by competent substitutes

26. कटौती/Deductions

- i. GST as applicable at present rate shall be paid by the contractor. The estimated cost put in to the tender is inclusive of 18% of GST. The contractor shall quote the rates inclusive of GST and other taxes as applicable on last date of tender.
- ii. TDS on GST as applicable shall be deducted from each Running Account and final bill.
- iii. TDS on Income Tax shall be deducted at source as per Government income tax Department notification.
- iv. Labour cess @ 1% and any other Government levies will be deducted from each RA bill.
- v. Security Deposit @ 5% will be deducted from each RA Bill.
- vi. Deduction towards electricity/water charges, if any.

All above deductions are subject to changes if any amendment issued by the Central/ State Government from time to time.

27. The contractor shall be blacklisted if the contractor not accepting the submitted bid and PBG/ Security Deposit shall be forfeited, if contractor fails to execute the work as per specifications/ other terms & conditions of the contract/direction of Director or his authorised representative.

28. Any dispute, difference or Law suites and other proceedings arising out of or in connection with the contract shall be instituted in Court of Law under the jurisdiction of Mumbai.

29.

Preference to Make in India

To encourage 'Make in India' and promote manufacturing and production of goods and services in India with a view to enhancing income and employment, Department of Promotion of Industry and Internal Trade (DPIIT), Ministry of Commerce and Industry, Government of India, issued Public Procurement (Preference to Make in India), Order 2017. The order is issued pursuant to Rule 153 (iii) of GFR, 2017. The Order is applicable on the procurement of Goods, Works and Services. For the purpose of this Order:-

- a. 'L1' means the lowest tender or lowest bid or the lowest quotation received in a tender, bidding process or other procurement solicitation as adjudged in the evaluation process as per the tender or other procurement solicitation.
- b. 'Margin of purchase preference' means the maximum extent to which the price quoted by a "Class-I local supplier" may be above the L1 for the purpose of purchase

preference. It has been fixed as 20 (twenty) percent.

- c. 'Nodal Ministry' means the Ministry or Department identified pursuant to this order in respect of a particular item of goods or services or works.
- d. 'Procuring entity' means Directorate General of Lighthouses and Lightships and its regional Directorates.
- e. 'Works' means all works as per Rule 130 of GFR- 2017, and will also include 'turnkey works'.

i. **Eligibility of 'Class-I local supplier'/ 'Class-II local supplier'/ 'Non-local suppliers' for different types of procurement**

- a. In procurement of all goods, services or works in respect of which the Nodal Ministry/ Department has communicated that there is sufficient local capacity and local competition, only 'Class-I local supplier', shall be eligible to bid irrespective of purchase value.
- b. Only 'Class-I local supplier' and 'Class-II local supplier', shall be eligible to bid in procurements undertaken by procuring entities, except when Global tender enquiry has been issued. In global tender enquiries, 'non-local suppliers' shall also be eligible to bid along with 'Class-I local suppliers' and 'Class-II local suppliers'. In procurement of all goods, services or works, not covered by sub-para (i) (a) above, and with estimated value of purchases less than Rs. 200 Crore, in accordance with Rule 161(iv) of GFR, 2017, Global tender enquiry shall not be issued except with the approval of Competent Authority.
- c. For the purpose of this Order, works includes Engineering, Procurement and Construction (EPC) contracts and services include System Integrator (SI) contracts.

ii. **Purchase Preference:**

- a. Subject to the provisions of the Order and to any specific instructions issued by the Nodal Ministry or in pursuance of the Order, purchase preference shall be given to 'Class-I local supplier' in procurements undertaken by procuring entities in the manner specified here under.
- b. In the procurements of goods or works, which are covered by para (i)(b) above and which are divisible in nature, the 'Class-I local supplier' shall get purchase preference over 'Class-II local supplier' as well as 'Non-local supplier', as per following procedure:
 - 1. Among all qualified bids, the lowest bid will be termed as L1. If L1 is 'Class-I local supplier', the contract for full quantity will be awarded to L1.
 - 2. If L1 bid is not a 'Class-I local supplier', 50 (fifty) percent of the order quantity shall be awarded to L1. Thereafter, the lowest bidder among the 'Class-I local supplier' will be invited to match the L1 price for the remaining 50 (fifty) percent quantity subject to the Class-I local supplier's quoted price falling within the margin of purchase preference, and contract for that quantity shall be awarded to such 'Class-I local supplier' subject to matching the L1 price. In case such lowest eligible 'Class-I local supplier' fails to match the L1 price or accepts less than the offered quantity, the next higher 'Class-I local supplier' within the margin of purchase preference shall be invited to match the L1 price for remaining quantity and so on, and contract shall be awarded accordingly. In case some quantity is still left uncovered on Class-I local suppliers, then such balance quantity may also be ordered on the L1 bidder.
- c. In the procurements of goods or works, which are covered by para (i)(b) above

and which are not divisible in nature, and in procurement of services where the bid is evaluated on price alone, the 'Class-I local supplier' shall get purchase preference over 'Class-II local supplier' as well as 'Non-local supplier', as per following procedure:

1. Among all qualified bids, the lowest bid will be termed as L1. If L1 is 'Class-I local supplier', the contract will be awarded to L1.
2. If L1 is not 'Class-I local supplier', the lowest bidder among the 'Class-I local supplier', will be invited to match the L1 price subject to Class-I local supplier's quoted price falling within the margin of purchase preference, and the contract shall be awarded to such 'Class-I local supplier' subject to matching the L1 price.
3. In case such lowest eligible 'Class-I local supplier' fails to match the L1 price, the 'Class-I local supplier' with the next higher bid within the margin of purchase preference shall be invited to match the L1 price and so on and contract shall be awarded accordingly. In case none of the 'Class-I local supplier' within the margin of purchase preference matches the L1 price, the contract may be awarded to the L1 bidder.
4. "Class-II local supplier" will not get purchase preference in any procurement, undertaken by procuring entities.

iii. **Applicability in tenders where contract is to be awarded to multiple bidders**

In tenders where contract is awarded to multiple bidders subject to matching of L1 rates or otherwise, the 'Class-I local supplier' shall get purchase preference over 'Class-II local supplier' as well as 'non-local supplier', as per following procedure:

- a. In case there is sufficient local capacity and competition for the item to be procured, as notified by the nodal Ministry, only Class I local suppliers shall be eligible to bid. As such, the multiple suppliers, who would be awarded the contract, should be all and only 'Class I Local suppliers'.
- b. In other cases, 'Class II local suppliers' and 'Non local suppliers may also participate in the bidding process along with 'Class I Local suppliers' as per provisions of the Order.
- c. If 'Class I Local suppliers' qualify for award of contract for at least 50 (fifty) percent of the tendered quantity in any tender, the contract may be awarded to all the qualified bidders as per award criteria stipulated in the bid documents. However, in case 'Class I Local suppliers' do not qualify for award of contract for at least 50 (fifty) percent of the tendered quantity, purchase preference should be given to the 'Class I local supplier' over 'Class II local suppliers'/'Non local suppliers' provided that their quoted rate falls within 20 (twenty) percent margin of purchase preference of the highest quoted bidder considered for award of contract so as to ensure that the 'Class I Local suppliers' taken in totality are considered for award of contract for at least 50 (fifty) percent of the tendered quantity.
- d. First purchase preference has to be given to the lowest quoting 'Class-I local supplier', whose quoted rates fall within 20 (twenty) percent margin of purchase preference, subject to its meeting the prescribed criteria for award of contract as also the constraint of maximum quantity that can be sourced from any single supplier. If the lowest quoting 'Class-I local supplier', does not qualify for purchase preference because of aforesaid constraints or does not accept the offered quantity, an opportunity may be given to next higher 'Class-I local supplier', falling within 20 (twenty) percent margin of purchase preference, and so on.
- e. To avoid any ambiguity during bid evaluation process, the procuring entities may stipulate its own tender specific criteria for award of contract amongst different bidders including the procedure for purchase preference to 'Class-I local supplier'

within the broad policy guidelines stipulated in sub-paras above.

- iv. **Exemption of small purchases:** Notwithstanding anything contained in paragraph (i), procurements where the estimated value to be procured is less than Rs. 5 lakhs shall be exempt from the Order. However, it shall be ensured by Directorate that procurement is not split for the purpose of avoiding the provisions of this Order.
- v. **Minimum local content:** The 'local content' requirement to categorize a supplier as 'Class-I local supplier' is minimum 50 (fifty) percent. For 'Class-II local supplier', the 'local content' requirement is minimum 20 (twenty) percent. Nodal Ministry/ Department may prescribe only a higher percentage of minimum local content requirement to categorize a supplier as 'Class-I local supplier'/ 'Class-II local supplier'. For the items, for which Nodal Ministry/ Department has not prescribed higher minimum local content notification under the Order, it shall be 50 (fifty) percent and 20 (twenty) percent for 'Class-I local supplier'/ 'Class-II local supplier' respectively.
- vi. **Requirement for specification in advance:** The minimum local content, the margin of purchase preference and the procedure for preference to Make in India shall be specified in the notice inviting tenders or other form of procurement solicitation and shall not be varied during a particular procurement transaction.
- vii. **Government E-marketplace:** In respect of procurement through the Government E-marketplace (GeM) shall, as far as possible, specifically mark the items which meet the minimum local content while registering the item for display, and shall, wherever feasible, make provision for automated comparison with purchase preference and without purchase preference and for obtaining consent of the local supplier in those cases where purchase preference is to be exercised.
- viii. **Verification of Local Content:**
 - a. The 'Class-I local supplier'/ 'Class-II local supplier' at the time of tender, bidding or solicitation shall be required to indicate percentage of local content and provide self-certification that the item offered meets the local content requirement for 'Class-I local supplier'/ 'Class-II local supplier', as the case may be. They shall also give details of the location(s) at which the local value addition is made.
 - b. In cases of procurement for a value in excess of Rs. 10 crores, the 'Class-I local supplier'/ 'Class-II local supplier' shall be required to provide a certificate from the statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.
 - c. Decisions on complaints relating to implementation of this Order shall be taken by the competent authority which is empowered to look into procurement-related complaints in DGLL.
 - d. False declarations will be in breach of the Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.
 - e. A supplier who has been debarred for violation of the Order shall not be eligible for preference under the Order for procurement for the duration of the debarment. The debarment for such other procuring entities shall take effect prospectively from the date on which it comes to the notice, in the manner prescribed under

paragraph (f) below.

- f. The Department of Expenditure shall issue suitable instructions for the effective and smooth operation of this process, so that:
 1. The fact and duration of debarment for violation of the Order by any procuring entity are promptly brought to the notice of the Member-Convenor of the Standing Committee and the Department of Expenditure through the Ministry or in some other manner.
 2. On a periodical basis such cases are consolidated and a centralized list or decentralized lists of such suppliers with the period of debarment is maintained and displayed on website.
 3. In respect debarment carried out by other procuring entities, the debarment takes effect prospectively from the date of uploading on the website(s) in the such a manner that ongoing procurements are not disrupted.

Director
For and on behalf of the President of India



भारत सरकार
पत्तन, पोत परिवहन और जलमार्ग मंत्रालय
दीपस्तंभ और दीपपोत निदेशालय
'दीपभवन', एम.जी.मार्ग, घाटकोपर (पूर्व),
मुंबई 400077 (महाराष्ट्र)

Govt. of India
Ministry of Ports, Shipping & Waterways
DIRECTORATE OF LIGHTHOUSES & LIGHTSHIPS
'Deep Bhavan', M. G. Road, Ghatkopar
(East), Mumbai 400077 (Maharashtra)



दूरभाष / Telephone : 022 - 25068390 फ़ैक्स / FAX : 022 - 25060996 ई-मेल / E-mail : dte-mum@gov.in

अनुभाग/SECTION-V

संविदा की विशेष शर्तें/Special Conditions of Contract

1. All the materials proposed to be used in the work shall confirm to the latest version of relevant codes/specifications of Bureau of Indian standard and as per direction of Director of Lighthouses and Lightships or his authorized representative.
2. The Contractor shall submit the programme, detailed work procedure in which he purposes to carry out the work including arrangement of all tools and plants, Machinery and equipments required for execution of work. The submission of programme for approval by Director shall not relieve the contractor from any of his duties and responsibilities under the contract.
3. All labour, materials, tools, plants, machinery, equipment, water, electricity etc. required for execution for work shall be arranged by the contractor at his own cost.
4. The work shall be carried out in the manner, complying in all respects with the requirement of relevant byelaws of national, state and the local bodies under the jurisdiction of which the work is to be executed and nothing extra shall be paid on this account.
5. The rates for all items of work, unless clearly specified otherwise, shall include the cost of all labour, materials and other inputs involved in the execution of the items.
6. Unless otherwise provided in the schedule of quantities the rates tendered by the contractor shall be all –inclusive and shall apply to all heights, depths, leads and lifts.
7. All tools, plant and machinery provided by the contractor shall, when brought to the site, be deemed to be exclusive intended for execution of this work and the contractor shall not remove the same or any part thereof without the consent of the Director.
8. All arrangements for establishment, watch & ward of stores and security of sites, police permission, permits, license, appropriate vehicles for transportation etc. shall have to be made by the contractor at his own cost and nothing extra on this account shall be paid.
9. The Director means the President of India through the Director of Lighthouses and Lightships, Mumbai (hereinafter referred to as 'DLL') having its registered office at the Deep Bhavan, M. G. Road, Ghatkopar (East), Mumbai – 400 077 and shall include his legal representatives and successors and permitted assigns. Accepting authority shall be DLL or his legal representatives and successors and permitted assigns. All the future correspondences in this connection shall be addressed to:-
The Director,
Directorate of Lighthouses & Lightships,
“Deep Bhavan”, M. G. Road, Ghatkopar (E)
Mumbai – 400 077
Phone No:- +91 – 22 -2506 8390
Fax No:- +91 – 22 – 2506 0996 (email- dte-mum@gov.in)
10. The Contract shall be governed by the law of the India. All documents related to bid shall be in Hindi / English language. The language for communications shall be Hindi / English. Law suits and other proceedings arising out of or in connection with the contract shall be instituted in Courts of Law at Mumbai, India only.

11. The cost associated with preparation and submission of bid shall be borne by the bidder. The cost of stamp duties and similar charges (if any) imposed by laws in connection with entry into the contract agreement shall be borne by the bidder.
12. The Contractor shall execute and complete the works in accordance with the contract, and shall remedy and defects in the works.
13. The Director may issue instructions to the contractor, which may be necessary for the Contractor to perform his obligations under the Contract. The contractor or his authorized representative shall be available for taking the instructions from the Director or his authorized representative.
14. The Contractor shall be deemed to have satisfied himself as to the correctness and sufficiency of the Contract Price. The Contract Price covers all the Contractor's obligations under the Contract and all things necessary for the proper design, execution and completion of the works.
15. The Contractor shall take all reasonable steps to protect the environment (both on and off the site) and to limit damage and nuisance to people and property resulting from pollution, noise, dust, gases, fuel and other results of his operations.
16. Quantities indicated in the schedule are only approximate & indicative. Variation in quantities may be plus or minus 25% (Twenty Five Percent). The rate for varied quantities shall be same as quoted by tenderer & nothing any extra amount shall be claimed by the contractor. Excess quantity shall be executed only after written approval of Director otherwise no payment shall be made for that excess quantity. The payment of R.A. Bill shall be made for the actual quantities executed and recorded.
17. If any extra items other than the scheduled items are required to be executed, the rates of such items shall be calculated based on the formula DSR rate or amount as per the market rate analysis (for Non DSR items) x (Contract value/Estimated Cost). If the contract value is higher than the estimated cost, DSR rate or amount as per the market rate analysis (for Non DSR items) shall be payable. All such works shall be carried out only after obtaining the written approval from the Director.
18. General Definitions: -
 - (A) "Contract" means Special and General conditions, the specifications, the drawings, the schedule of works, the bid, the letter of acceptance, the Contract agreement (if completed) and such further documents as may be expressly incorporated in the Letter of Acceptance or Contract Agreement (if completed).
 - (B) "Tender" means the Contractor's signed offer for the works and all other documents which the Contractor submitted therewith for the execution and completion of the work and remedying of any defects therein in accordance with the provisions of the contract, as accepted by the letter of acceptance.
 - (C) "Contractor" means the person(s), firms, or company whose bid has been accepted by the Director and the legal successor but not (except with the consent of the Director) any assignee of such person.
 - (D) "Contract Price" means the agreed amount stated in the Contract Agreement for the design, execution and completion of the Works and the remedying of any defects, and includes adjustments (if any) in accordance with the Contract.
 - (E) "Laws" means all national (or state) legislation, statutes, ordinances and other laws, and regulations and by-laws of any legally constituted public authority.
 - (F) Joint Venture: - If a bidder constitutes (under applicable laws) a joint venture they shall submit and comply with the following requirements:
 - (a) The bid shall be signed so as to be legally binding on all partners,
 - (b) One of the partners shall be nominated as being in charge. This authorization shall be evidenced by submitting an authorization letter signed by legally authorized signatories of all the parties,

- (c) The partner in charge shall be authorized to incur liabilities and receive instructions for and on behalf of any and all partners of the Joint Venture. The entire execution of the contract including payment shall be made exclusively with the partner in charge,
 - (d) All partners of the Joint Venture shall be liable jointly and separately for the execution of the contract in accordance with the contract in accordance with the contract terms. A relevant statement to this effect shall be included in the authorization mentioned under sub clause 28(b) above. The name and address of each of the signatory shall be shown in print underneath each signature,
 - (e) A copy of the agreement entered into by the Joint Venture partners is to be submitted with the bid.
 - (f) The Contractor shall not change its composition or legal status without the prior consent of the Director.
19. **Priority of Documents:** The documents forming the Contract are to be taken as mutually explanatory of one another. For the purposes of interpretation, the priority of the documents shall be in accordance with the following sequence:
- (a) The Contract Agreement,
 - (b) The Special Conditions of Contract,
 - (c) The General Conditions of Contract,
 - (d) Description of the items in Schedule of work,
 - (e) Bureau of Indian Standards Specifications.
20. The Director shall not make any direct payment to the subcontractor.
21. The contractor shall pay income tax and surcharge for all payments made to him under the contract as per prevailing laws.
22. Any notice to the contractor shall be deemed to be sufficiently served if given or left on writing at his usual or last known place of abode or business or a site.
23. On the completion of the works, the contractor shall clear away and remove from the site all construction plants, temporary works, surplus materials and rubbish of every kind and leave the site and works clean and in a workman like condition to the satisfaction of the Director.
24. A fortnightly progress report of the work shall be submitted giving details of the work completed in the period and showing the progress of the work measured against the programme submitted by the contractor.
25. Any increase in rates in respect of labour and materials during execution of work shall be borne by the bidder.
26. Test report of all material shall be submitted by contractor at his own cost.
27. All the materials proposed to be used in the work shall conform to the latest version of the relevant codes/ specifications of Bureau of Indian Standards and as per the direction of the Director of Lighthouses and Lightships, Mumbai or his authorised representatives.
28. All labour, materials, tools, plants, machinery, equipment, water, electricity etc required for the execution of the work shall be arranged by the contractor at their own cost.
29. **Water Supply and Electricity:** The rates quoted by the contractor shall include all expenditure for providing water for the full contract period required for the works including that for the labour and all staff at site. He shall make his own arrangement for the supply of good quality water suitable for use in the works and work people. Electricity for running the motor or any other equipment required should be arranged by the contractor. In case, water and electricity is arranged by the Owner charges towards the same shall be recovered @ 1% of the tender cost for water and 1% of the tender cost for electricity.

Director



भारत सरकार
पत्तन, पोत परिवहन और जलमार्ग मंत्रालय
दीपस्तंभ और दीपपोत निदेशालय
'दीपभवन', एम.जी.मार्ग, घाटकोपर (पूर्व),
मुंबई 400077 (महाराष्ट्र)

Govt. of India
Ministry of Ports, Shipping & Waterways
DIRECTORATE OF LIGHTHOUSES & LIGHTSHIPS
'Deep Bhavan', M. G. Road, Ghatkopar
(East), Mumbai 400077 (Maharashtra)



दूरभाष / Telephone : 022 - 25068390 फ़ैक्स / FAX : 022 - 25060996 ई-मेल / E-mail : dte-mum@gov.in

अनुभाग/SECTION-VI

सिविल कार्यों के लिए सामान्य विनिर्देश / General Specifications for Civil Works

1.0. GENERAL

1.1. Scope of civil work includes earth-work, CC work, RCC work, masonry work, wood work, flooring, roofing, steel/GI work, stone work, marble work, finishing, painting, electrification, air-conditioning works, water supply, sanitary and drainage work and other miscellaneous works. The work in general shall be executed as per the description of the item, specifications attached, C.P.W.D latest specifications as indicated below: -

- (a) C.P.W.D specifications volume I
- (b) C.P.W.D specifications volume II
- (c) C.P.W.D specifications volume III
- (d) C.P.W.D specifications volume IV
- (e) C.P.W.D specifications volume V
- (f) C.P.W.D specifications volume VI
- (g) C.P.W.D specifications volume I (electrical work)
- (h) C.P.W.D specifications volume II (electrical work)
- (i) C.P.W.D specifications volume III (electrical work)
- (j) C.P.W.D specifications Horticulture & land scaping

1.2. In case of any variation between different applicable specifications, the following order of precedence will be followed.

- (a) Nomenclature of Schedule of items given in Section-VIII (Part – B)
- (b) Particular specifications attached with the bid documents.
- (c) General specifications attached with the Bid documents /drawings.
- (d) C.P.W.D Specifications
- (e) Bureau of Indian Standard Specification.
- (f) Decision of the Employer.

1.3. The contractor shall be required to produce samples of all materials sufficiently in advance to obtain approval of the Employer. This approved sample shall be displayed at site of work and preserved till completion of the work. The materials to be used in the actual execution of the work shall strictly conform to the quality of samples approved. In case of any variation, such materials shall be liable to rejection.

1.4. All the materials used in the work shall comply with the requirement of Employer and shall pass all the tests and analysis required by him as per particular specifications applicable or such recognized specifications as acceptable to the Employer.

1.5. The contractor shall ensure quality control measures on different aspects of work including materials, workmanship and correct methodologies to be adopted. He shall have to submit quality assurance

programme within two weeks of the award of the work. The quality assurance programme should include method statement for various items of work to be executed along with check lists to enforce quality control.

- 1.6. The contractor shall get the source of various raw materials, namely aggregate, cement, sand, water etc. to be used on the work, approved from the Employer. The contractor shall stick to the approved source unless it is absolutely unavoidable. Any change shall be done with the prior approval of the Employer for which the contractor at his own cost shall do tests.
- 1.7. The contractor shall arrange adequate water for the construction purpose. All the cost towards the supply of water at site, testing of water in government recognized laboratory shall be borne by the contractor.
- 1.8. Similarly, the contractor shall submit brand/make of various materials to be used for the approval of the Employer along with samples and once approved, he shall stick to it.
- 1.9. The contractor shall at his own cost, make all arrangement and shall provide such facilities as the Employer may require for collecting, preparing and forwarding the required number of samples for tests and for analysis at such item and to such places, as directed by the Employer. Nothing extra shall be paid for the above, including the cost of materials to be tested.
- 1.10. The contractor or his authorised representative shall associate in collection, preparation, forwarding and testing of such samples. In case, he or his authorised representative is not present or does not associate him self, the results of such tests and consequences thereon shall be binding on the contractor.
- 1.11. The contractor shall get the water tested with regard to its suitability for use in the works and get written approval from the Employer before he proceeds with the use of same for execution of works. If the tube well water is not suitable, the contractor shall arrange suitable water from any source at his own cost and nothing extra shall be paid to the contractor on this account. The water shall be got tested at frequency specified in latest BIS code/CPWD specifications.
- 1.12. Wherever any reference to any Bureau of Indian Standard Specifications occur in the documents relating to this contract same shall be inclusive of all amendments issued thereto or revision thereof if any, upto date of the tender notice.
- 1.13. The material shall conform to the quality and make as per list attached, however for the item not appearing in the list, preference shall be given to those articles which bear ISI certification marks. In case articles bearing ISI certification marks are not available the quality of sample brought by the contractor shall be judged by the standard laid down in the relevant ISI specification / CPWD specification. All material and articles brought by the contractor to the site for use shall conform to the samples approved, which shall be preserved till the completion of the work. However, such articles that bear ISI mark but stand banned by CPWD will not be used.
- 1.14. The architectural drawings shall at all times be properly correlated by the contractor before executing the work and no claim what so ever shall be entertained for failing to do so. However, in case of any discrepancy in the item given in the schedule of quantities appended with the tender and architectural drawing relating to the relevant item, the former shall prevail unless and otherwise given in writing by the Engineer-in-Charge.
- 1.15. Wherever work is specified to be done or material procured through specialized agencies, their names shall be got approved well in advance from Employer. Failure to do so shall not justify delay in execution of work. It is suggested that immediately after award of work, contractor should negotiate with concerned specialist agencies and send their names for approval to Employer. Any materials procured without prior approval of Employer in writing is liable to be rejected. Employer reserves right to get the materials tested in laboratories of his choice before final acceptance. Non-standard material shall not be accepted.
- 1.16. The contractor shall have to use plate vibrators for casting of RCC slab in addition to needle vibrators and vibratory plate compactor for compaction of earth under floors.

2.0. सीमेंट के लिए शर्तें/CONDITIONS FOR CEMENT

- 2.1 The contractor shall procure 53 grade ordinary Portland cement, Sulphate resisting cement/PPC as required in the work from reputed manufacturers of cement having a production capacity of one million tones per annum or more as approved by Ministry of Industry, Government of India and holding licence to use ISI certification mark for their product whose name shall be got approved from Employer. Supply of cement shall be taken in 50Kg bags bearing manufacture's name and ISI marking. Samples of cement arranged by the contractor shall be taken by the Employer and got tested in accordance with provisions of relevant BIS codes. In case test results indicate that the cement arranged by the contractor does not conform to the relevant BIS codes, the same shall stand rejected and shall be removed from the site by the contractor at his own cost within a week's time of written order from the Employer to do so.
- 2.2 The cement shall be brought at site in bulk supply as decided by the Employer.
- 2.3 The contractor shall supply free of charge the cement required for testing and the cost of tests shall be borne by the contractor.
- 2.4 The actual issue and consumption of cement on work shall be regulated and proper accounts maintained. No payment for excess consumption of cement shall be allowed.
- 2.5 For each grade, cement bags shall be stored in two separate godowns, one for tested cement and the other for fresh cement (under testing) constructed by the contractor at his own cost as per sketch (to be given by the Contractor for approval) with weatherproof roofs and walls. The actual size of godowns shall be as per site requirements and nothing extra shall be paid for the same. The decision of the Employer regarding the capacity needed shall be final. However, the capacity of each godown shall not be less than 40 tonnes. Each godown shall be provided with a single door with two locks. The keys of one lock shall remain with Employer's representative of the work and that of other lock with the authorized agent of the contractor at the site of work so that the cement is issued from godowns according to the daily requirement with the knowledge of both parties. The account of daily receipt and issue of cement shall be maintained in a register in the prescribed proforma and signed daily by the contractor or his authorized agent in token of its correctness.
- 2.6 Materials shall be kept in the joint custody of the contractor and the Employer's representative. The empty containers /bags/drums shall not be removed from the site of work till the relevant item of work has been completed and permission obtained from Employer.

3.0. रेत/SAND

- 3.1 Sand used in the construction work shall conform to I.S. 2686-1977. It shall be hard, durable, chemically inert, clean and free from adherent coatings, organic matter etc. and shall not contain any appreciable amount of clay balls or pellets and harmful impurities e.g. iron pyrites, salts, Alkalis, coal, mica, shale etc. The sum of all percentages of all deleterious materials shall not exceed 5%.
- 3.2 The maximum quantity of silt shall not exceed 8%. Sand required to be used for mortar for plaster work shall conform to IS: 1542-1977 and for masonry works shall conform to IS: 2116-1980. The allowable bulkgage of sand in moist condition is 15% to 30%.

4.0. ईंटें/BRICKS

- 4.1 Bricks used in the masonry shall be of common burnt clay bricks- hand moulded or machine moulded. They shall be free from nodules of free lime, visible cracks, flaws warpage and organic matter.
- 4.2 The bricks should have smooth rectangular faces with sharp corner and shall be uniform in colour and produce ringing sound when struck.
- 4.3 The samples of bricks shall be subjected to the following tests:

- i) Dimensional tolerance
- ii) Water absorption
- iii) Efflorescence
- iv) Compressive strength

Common burnt clay building bricks shall conform to IS:1077-1986; classification of burnt clay solid bricks shall conform to IS:3102-1971 and method of test for clay building bricks shall conform to IS:3495-1976(part1 to 4).

5.0. लकड़ी/TIMBER

- 5.1 The timber shall be free from decay, fungal growth, boxed heart, pitch pockets or streaks on the exposed edges, split and cracks. The timber shall be of first grade with minimum defects. Knots should be avoided. Knots shall not exceed 1 % of the area of the piece.
- 5.2 The moisture content of timber shall be within a range as per I.S. 287-1993.
- 5.3 The timber shall be seasoned as per I.S. 1141- 1993.
- 5.4 No extra cost will be paid for seasoning of wood etc.

6.0. सीमेंट मोर्टार/CEMENT MORTARS

- 6.1 The grade of masonry mortar will be defined by its compressive strength in N/sq.mm at the age of 28 days as determined by the standard procedure detailed in I.S. 2250-1981.
- 6.2 Cement Mortar shall be prepared by mixing cement and sand with or without the addition of pozzolana.
- 6.3 Cement bags weighing 50 kg shall be taken as 0.035cu.m. Other ingredients in specified proportion shall be measured using boxes of size 40x35x25 cm. Sand shall be measured on the basis of its dry volume.
- 6.4 Mixing of mortar shall be done in a mechanical mixer operated manually or by power. However, Director, Lighthouses & Lightships may permit hand mixing at his discretion taking into account the nature, magnitude and location of the work or where item involving small quantities are to be done.
- 6.5 Mechanical Mixing
- 6.6 Cement and sand in the specified proportion shall be mixed dry thoroughly in a mixer. Water shall then be added gradually and wet mixing continued for at least three minutes. Only the required quantity of water shall be added which will produce mortar of workable consistency but not stiff paste. Only the quantity of mortar which can be used within 30 minutes of its mixing shall be prepared at a time.
- 6.7 Hand Mixing
- 6.8 Measured quantity of sand shall be levelled on a clean platform and cement bags emptied on top. The cement and sand shall be thoroughly mixed dry, till the mixture is of a uniform colour. The quantity of dry mix can be used within 30 minutes with just sufficient quantity of water to bring the mortar to stiff part of necessary working consistency.
- 6.9 Mortar shall be used as soon as possible after mixing and before it begins to set and in any case within half an hour after the water is added to the dry mixture.

7.0. काम पूरा होने के बाद/After completion of work

- 7.1 After completion of the work any materials belonging to the contractor shall be removed by the contractor at his own cost immediately.

- 7.2 If any materials left out by the contractor inside the premises, the Director Lighthouses Lightships deserves the right to remove the same outside the premises; the cost of such removal will be deducted from the contractor's bill or security Deposit.
- 7.3 Alternatively, the contractor shall have no right own such materials after his security deposit had been returned to him and the material shall become the property of the department.
- 8 **Scrapping, cleaning of old paint** of the the exterior surface of the Building shall be cleaned thoroughly where ever applicable as directed by EIC and old paint to be removed with utmost care without causing any damage to the surface of civil structures. Exterior pains shall be applied Painting

8.3.1 **Materials** as Paints, oils, varnishes etc. of approved brand and manufacture shall be used as per the BOQ specifications for Exterior & Interior surfaces of Building & allied structures. Only ready mixed Paint (Exterior grade) received from the manufacturer without any admixture shall be used. If for any reason, thinning is necessary in case of ready mixed Paint, the brand of thinner Recommended by the manufacturer or as instructed by the Engineer-in-Charge shall be used.

Contractor shall submit the samples of paints for approval by Engineer-in -charge, and it's the responsibility of contractor to transport the paint pertaining the approved sample for execution at site. Any deviation in make/quality of paint is liable to rejection & contractor has to rectify the defect at his own cost and no extra payment shall be entertain whatsoever.

Approved Paints, oil or varnishes shall be brought to the site of work by the contractor in their original containers in sealed condition. The material shall be brought in at a time in adequate quantities to suffice for the whole work or at least a fortnight's work. The materials shall be kept in the joint custody of the contractor and the Engineer-in-Charge. The empties shall not be removed from the site of work, till the relevant item of work has been completed and permission obtained from the Engineer-in-Charge.

8.3.2 Commencing Work

Painting shall not be started until the Engineer-in-Charge has inspected the items of work to be painted, satisfied himself about their proper quality and given his approval to commence the painting work. Painting of external surface should not be done in adverse weather condition like rain and dust storm.

8.3.3 Preparation of Surface

All rust and scales shall be removed by scrapping or by brushing with steel wire brushes. Hard skin of oxide formed(corrosion) on the surface of wrought iron during rolling which becomes loose by rusting, shall be removed. All dust and dirt shall be thoroughly wiped away from the surface. If the surface is wet, it shall be dried before priming coat is undertaken.

8.3.4 Application

Before pouring into smaller containers for use, the Paint shall be stirred thoroughly in its containers, when applying also, the Paint shall be continuously stirred in the smaller containers so that its consistency is kept uniform. The painting shall be laid on evenly and smoothly by means of crossing and laying off, the latter in the direction of the grains of wood. The crossing and laying off consists of covering the area over with Paint, brushing the surface hard for the first time over and then brushing in opposite direction, two or three times and then finally brushing lightly in a direction at right angles to the same. In this process, no brush marks shall be left after the laying off is finished. The full process of crossing and laying off will constitute one coat.

Depending on the nature and location of work to be carried out. Skilled and experienced workmen shall be employed for this class of work. Paints used shall be brought to the requisite consistency by adding a suitable thinner.

No left over Paint shall be put back into the stock tins. When not in use, the containers shall be kept properly closed. No hair marks from the brush or clogging of Paint puddles in the corners of panels, angles of mouldings etc. shall be left on the work. On painting steel work, special care shall taken while painting over bolts, nuts, rivets overlaps etc. be The additional specifications for primer and other coats of Paints shall be as according to the detailed specifications under the respective headings.

8.3.5 Brushes and Containers

After work, the brushes shall be completely cleaned of Paint and linseed oil by rinsing with turpentine. A brush in which Paint has dried up is ruined and shall on no account be used for painting work. The containers when not in use, shall be kept closed and free from air so that Paint does not thicken and also shall be kept.

6.3.6 Painting with Synthetic Enamel Paint

Synthetic Enamel Paint (conforming to IS 2933) of approved brand and manufacture and of the Required colour shall be used for the top coat and an undercoat of ordinary Paint of shade to match the top coat as recommended by the same manufacturer as far the top coat shall be used.

- Note:** 1. Regarding selecting the make against each item among the approved makes as specified above. decision of DLL shall be final. The DLL reserves the right to approve any other brand/manufacturer in addition to above list. 2. Paint brand/ make shall be approved by the Engineer in charge. 3. Primer, putty brand/ make shall be approved by the Engineer in charge 4. The other items shall be as per CPWD specification or ISI mark approved by engineer in charge.

List of approved make/ brand of material for civil works

Sl.No.	Name of Material	Approved Make
1	Paints & Primers	As mentioned in BoQ

The shades of paint colors The paints shall be procured and used for the work as per shades mentioned below

Sl.No.	Color	Shade	Component
1	White	Snow white/ Brilliant White	Trestle Tower; GI Tower, RCC tower
2	Red	Signal Red	Trestle Tower,
3	Green	Bus Green	Automation Box and Hand Rail
4	Black	Black	Gate, Pedestal, RCC Tower painting Etc.

Note:

1. Regarding selecting the make against each item among the approved makes as specified above, decision of DLL shall be final. The DLL reserves the right to approve any other brand/manufacturer in addition to above list.
2. Paint brand/ make shall be approved by the Engineer in charge.
3. Primer, putty brand/ make shall be approved by the Engineer in charge
4. The other items shall be as per CPWD specification or ISI mark approved by engineer in charge.

8.0 Force Majeure:

- 8.1 In the event of either party being rendered unable by force majeure to perform any obligation required to be performed by it under this Agreement, the relative obligation of the party affected by such force majeure shall after notice under this clause be suspended for the period during which such cause lasts
- 8.2 The term force majeure as used herein shall mean acts of God, War (declared or undeclared) Riots or Civil commotion, Fires, Floods and acts of Regulations of the Government of India or any of its authorized agencies.
- 8.3 Upon the occurrence of any force majeure cause and upon its termination, the party alleging that it has been rendered unable as aforesaid shall notify the other party in writing, within seventy-two (72) hours of the alleged beginning and ending thereof giving full particulars and satisfactory explanation in support of its claim.
- 8.4 Time for performance of the relative obligation suspended by the "Force Majeure" shall then stand extended by the period for which such causes last.

निदेशक/ Director

**भारत के राष्ट्रपति के लिए और उनकी ओर से
For and on behalf of the President of India**



भारत सरकार
पत्तन, पोत परिवहन और जलमार्ग मंत्रालय
दीपस्तंभ और दीपपोत निदेशालय
'दीपभवन', एम.जी.मार्ग, घाटकोपर (पूर्व),
मुंबई 400077 (महाराष्ट्र)

Govt. of India
Ministry of Ports, Shipping & Waterways
DIRECTORATE OF LIGHTHOUSES & LIGHTSHIPS
'Deep Bhavan', M. G. Road, Ghatkopar
(East), Mumbai 400077 (Maharashtra)



दूरभाष / Telephone : 022 - 25068390 फ़ैक्स / FAX : 022 - 25060996 ई-मेल / E-mail : dte-mum@gov.in

खंड / SECTION - VII

Validate Print Help

Percentage BoQ

Tender Inviting Authority:

Name of Work:: Reconstruction of power house, office, store room and general maintenance of
Tolkeshwar Lighthouse station Contract No:

NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	Estimated Rate in Rs. P	TOTAL AMOUNT including GST and other taxes in Rs. P	TOTAL AMOUNT In Words including GST and other taxes
1	2	3	4	5	6	7
1	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared all complete as per the direction of Engineer-In-Charge.	1780.000	Sqm	17.60	31328.00	INR Thirty One Thousand Three Hundred & Twenty Eight Only
2	Dismantling of existing wooden/steel doors, windows, ventilators, cupboards etc of frames and shutters without damaging the adjacent structure including removal of chowkhats, frames, architraves, holdfasts, hinges, fastening and other attachments and including stacking the serviceable materials for re-use and disposing the unserviceable materials from the site. Supply of all labours, tools and finishing etc. complete as directed by the engineer in charge. (of area 3 sq. metres and below)	33.000	Each	367.20	12117.60	INR Twelve Thousand One Hundred & Seventeen and Paise Sixty Only
3	Dismantling of unserviceable/ damaged Wash Basin of any size including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead including supply of all labours, tools and plants, finishing etc. complete as directed by the engineer in charge.	1.000	Each	258.00	258.00	INR Two Hundred & Fifty Eight Only

4	Dismantling of unserviceable/damaged IWC/EWC pan of all sizes including stacking of useful materials near the site and disposal of unserviceable materials within 50 meters lead including supply of all labours, tools and plants, finishing etc. Complete as directed by the engineer in charge.	1.000	Each	134.10	134.10	INR One Hundred & Thirty Four and Paise Ten Only
5	Dismantling G.I. pipes (external work) including excavation and refilling trenches after taking out the pipes, manually/ by mechanical means including stacking of pipes within 50 metres lead as per direction of Engineer-in-charge: (15 mm to 40 mm nominal bore)	16.000	Rmt	149.80	2396.80	INR Two Thousand Three Hundred & Ninety Six and Paise Eighty Only
6	Demolishing nominal cement concrete 1:3:6 or richer mix (i/c equivalent design mix) manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.	12.000	Cum	2434.25	29211.00	INR Twenty Nine Thousand Two Hundred & Eleven Only
7	Dismantling tile work for thickness of tiles 10 mm to 25 mm in floors, walls and roofs laid in cement mortar including stacking material within 50 metres lead including supply of all labours, tools and plants, finishing etc. Complete as directed by the engineer in charge.	2280.000	Sqm	73.40	167352.00	INR One Lakh Sixty Seven Thousand Three Hundred & Fifty Two Only
8	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars & serviceable materials for reuse and disposing the unserviceable materials within a lead of 50 m including supply of all labours, tools & plants and finishing etc. complete as directed by engineer in charge.	21.000	Cum	3551.25	74576.25	INR Seventy Four Thousand Five Hundred & Seventy Six and Paise Twenty Five Only
9	Demolishing stone rubble masonry manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge (In cement mortar)	62.000	Cum	2458.95	152454.90	INR One Lakh Fifty Two Thousand Four Hundred & Fifty Four and Paise Ninety Only
10	Treatment of existing masonry using chemical emulsion @ one litre per hole at 300 mm interval including drilling holes at 45 degree and plugging them with cement mortar 1:2 (1 cement : 2 coarse sand) to the full depth of the hole With Chlorpyrifos/Lindane E.C. 20% with 1% concentration as directed including supply of all materials, tools, labours etc. complete as directed by the engineer in charge.	39.000	Rmt	43.00	1677.00	INR One Thousand Six Hundred & Seventy Seven Only
11	(B) Special repair and maintenance of Lighthouse Tower -Removing dry or oil bound distemper,Synthetic Enamel paint, water proofing cement paint etc from interior and exterior wall surfaces of lighthouse tower/door/windows and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc including supply of all labour tools materials etc all complete as per direction of Engineer-in-Charge	2592.000	Sqm	25.15	65188.80	INR Sixty Five Thousand One Hundred & Eighty Eight and Paise Eighty Only

12	Dismantling steel work in built up sections (Hand railing) in angles, tees, flats,pipe and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 50 metres lead complete as directed by the engineer in charge	330.000	Kg	5.65	1864.50	INR One Thousand Eight Hundred & Sixty Four and Paise Fifty Only
13	Chipping of unsound/weak concrete material from slabs, beams, columns 50 mm average thickness with manual Chisel including tapering of all edges, making square shoulders of cavities including cleaning the exposed concrete surface and reinforcement with wire brushes etc. and disposal of debris for all lead and lifts all complete as per direction of Engineer-In-Charge	50.000	Sqm	256.35	12817.50	INR Twelve Thousand Eight Hundred & Seventeen and Paise Fifty Only
14	Cleaning of reinforcement from rust from the reinforcing bars upto 12 mm diameter to give it a total rust free steel surface by using alkaline chemical rust remover of approved make with paint brush and removing loose particles after 24 hours of its application with wire brush and thoroughly washing with water and allowing it to dry, all complete as per direction of Engineer-In-Charge.	700.000	Rmt	8.25	5775.00	INR Five Thousand Seven Hundred & Seventy Five Only
15	Providing and fixing hard drawn steel wire fabric of size 75 x25 mm mesh or other suitable size wire mesh to be fixed & firmly anchored to the concrete surface by means of "L" shaped mild steel shear key welded with existing reinforcement which is to applied with one coat of anti-corrosive paint including the cost of materials, labour, tool & plants as approved by Engineer-in-charge.	50.000	Sqm	902.55	45127.50	INR Forty Five Thousand One Hundred & Twenty Seven and Paise Fifty Only
16	Providing, mixing and applying Epoxy bonding adhesive having coverage 2.20 sqm/kg of approved maker (Roff / Fosroc/ Basf) on chipped portion of RCC/plaster surfaces as per specifications and direction of Engineer-In-charge.	50.000	Sqm	285.20	14260.00	INR Fourteen Thousand Two Hundred & Sixty Only

17	Providing and laying SBR Polymer modified (of approved make @ minimum 2% by wt. of cement used) plain/reinforced concrete jacket for the structural members of lighthouse tower e.g. staircase waist slab/beams, tower top slab etc with concrete of 50mm thick in Grade M 25 with cement content not less than 330 kg per cum [with ordinary portland cement, coarse sand and graded stone aggregate of 10mm maximum size in proportion as per design criteria] including 12 mm cement plaster finished with a floating coat of neat cement of mix 1:3 (1 cement: 3 fine sand). Note: Rates shall be for finished surface area of concrete and shall include the cost of making holes in existing RCC slab, if required, for pouring concrete in shuttering mould of jacket and appropriate approved Super-Plasticiser for rendering concrete as flowable self compacting and SBR polymer, Centering and shuttering including strutting with adequate bracing, propping etc., including cost of de-shuttering and decentering at all levels etc. but shall exclude cost of reinforcement, bond coat, Shear Keys (Payment under this item shall be made only after proper wet curing has been done and surface has been satisfactorily evaluated by sounding/tapping with a blunt metal instrument)					
17.01	Upto height of 5 m	13.000	Sqm	2157.00	28041.00	INR Twenty Eight Thousand &Forty One Only
17.02	From 5 m to 8.5 m	9.000	Sqm	3310.00	29790.00	INR Twenty Nine Thousand Seven Hundred & Ninety Only
18	Providing and laying 3 mm thick APP (Atactic Polypropylene Polymer) modified prefabricated five layer 3 mm thick water proofing membrane, black finished reinforced with non-woven polyester matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrane manufacture of density at 25°C, 0.87-0.89 kg/ litre and viscosity 70-160 cps. Over the primer coat the layer of membrane shall be laid using Butane Torch and sealing all joints etc, and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 650/ 450N/ 5cm. Tear strength in longitudinal and transverse direction as 300/250N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM,D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane including the cost of all materials , labours ,tools & plants etc. etc. complete as directed by the engineer in charge.	745.000	Sqm	560.95	417907.75	INR Four Lakh Seventeen Thousand Nine Hundred & Seven and Paise Seventy Five Only
19	Repair to plaster of thickness 12mm to 20 mm in patches of area 2.5 sqm and under, including cutting the patch in proper shape, raking out joints and preparing plastering the wall surface with white cement based polymer modified self curing mortar, including disposal of rubbish, all complete as per the direction of Engineer-In-Charge	20.000	Sqm	670.95	13419.00	INR Thirteen Thousand Four Hundred & Nineteen Only
20	Providing and fixing 50 mm C class G.I. Pipes hand rail by welding etc. At lighthouse tower top slab. The verticals of handrail to be embedded in concrete cubes of size 150X150X150 in cement concrete in 1:1½:3 (1 cement : 1½ coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size) including the the cost of centering and shuttering and priming coat of approved steel primer etc complete as directed by engineer in charge.	459.000	Kg	203.05	93199.95	INR Ninety Three Thousand One Hundred & Ninety Nine and Paise Ninety Five Only
21	Providing and fixing 35 mm thick shutters in Second class teak wood, panelled or panelled and glazed shutters for doors, windows and clerestory windows, fixing with providing ISI marked Stainless Steel butt hinges bright finished of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer-in-charge.	3.000	Sqm	4305.50	12916.50	INR Twelve Thousand Nine Hundred & Sixteen and Paise Fifty Only

22	Providing and fixing second class teak wood panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick all complete as per direction of Engineer-in-charge	1.000	Sqm	3323.20	3323.20	INR Three Thousand Three Hundred & Twenty Three and Paise Twenty Only
23	Providing and fixing 125x85x5.5 mm (heavy type) bright finished brass butt hinges with necessary screws etc. complete etc. Complete as per the direction of the Engineer-in-charge	6.000	Each	268.65	1611.90	INR One Thousand Six Hundred & Eleven and Paise Ninety Only
24	Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc. Complete as per the direction of the Engineer-in-charge	2.000	Each	121.65	243.30	INR Two Hundred & Forty Three and Paise Thirty Only
25	Providing and fixing 250x10 mm bright finished brass tower bolts (barrel type) with necessary screws etc. Complete as per the direction of the Engineer-in-charge	2.000	Each	441.60	883.20	INR Eight Hundred & Eighty Three and Paise Twenty Only
26	Providing and fixing 125 mm bright finished brass handles with screws etc. Complete as per the direction of the Engineer-in-charge	2.000	Each	256.65	513.30	INR Five Hundred & Thirteen and Paise Thirty Only
27	Painting with synthetic enamel paint in two or more coats of interior and exterior wall of lighthouse tower over an under coat of suitable shade with ordinary paint of approved brand and manufacture (Asian/Burger/Shalimar) of required colour to give an even shade including supply of all labour tools materials etc all complete as per direction of Engineer-in-Charge	287.000	Sqm	226.25	64933.75	INR Sixty Four Thousand Nine Hundred & Thirty Three and Paise Seventy Five Only
28	French spirit polishing on wood work two or more coats wherever required including supply of all materials, labours, tools etc. complete as directed by the engineer in charge	20.000	Sqm	446.25	8925.00	INR Eight Thousand Nine Hundred & Twenty Five Only
29	Excavation work by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m, as directed by Engineer-in-charge Hard rock (blasting prohibited)	31.00	Cum	1523.05	47214.55	INR Forty Seven Thousand Two Hundred & Fourteen and Paise Fifty Five Only
30	Dry stone soling/ pitching 22.5 cm thick laid in courses and required profile with hammer dressed stones having no side less than 15 cm, with minimum depth of 20 cm including preparing the bedding surface, supply of all labours, tools, materials etc. complete as directed by the engineer in charge. (Rubble stones obtained from dismantling of masonry)	66.00	Sqm	659.05	43497.30	INR Forty Three Thousand Four Hundred & Ninety Seven and Paise Thirty Only
31	Providing and laying 1:3:6 (1 Cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources) in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level, complete as per the direction of Engineer-in-charge.	15.00	Cum	7294.70	109420.50	INR One Lakh Nine Thousand Four Hundred & Twenty and Paise Fifty Only
32	Construction of Coursed laterite stone masonry work (first sort), in Cement mortar 1:6 (1 cement : 6 coarse sand) in foundation and plinth as directed including supply of all materials, tools, labours etc. complete as directed by the engineer in charge	20.00	Cum	8812.05	176241.00	INR One Lakh Seventy Six Thousand Two Hundred & Forty One Only
33	Pointing on stone work with cement mortar 1:3 (1 cement : 3 fine sand) : 13.33.1 Flush/ Ruled pointing	17.00	Sqm	385.40	6551.80	INR Six Thousand Five Hundred & Fifty One and Paise Eighty Only
34	Construction of Coursed laterite stone masonry work (first sort), in Cement mortar 1:6 (1 cement : 6 coarse sand) in superstructure above plinth level and upto floor five level as directed including supply of all materials, tools, labours etc. complete as directed by the engineer in charge	45.00	Cum	10741.60	483372.00	INR Four Lakh Eighty Three Thousand Three Hundred & Seventy Two Only

35	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)including supply of all materials, tools, labours etc. complete as directed by the engineer in charge					
35.01	Lintels, beams, plinth beams, roof beam, parapet wall, (11505.50 per cum for concrete + 736.4 for one sqm shuttering i.e. for a beam of 1 meter x .30 m wide x 0.30 deep. Shuuering is 0.90 sqm for concrete quantity 0.09 cum which is 736.4 rupees for 0.90 sqm means 818.22 per sqm which means 9091.41 per cum)	6.00	Cum	20596.91	123581.46	INR One Lakh Twenty Three Thousand Five Hundred & Eighty One and Paise Forty Six Only
35.02	Weather shade,Chajjas, Cupboards etc., including Loft slab (11505.50 per cum for concrete + 951.10 for one sqm shuttering i.e. 12681.33 per cum for slab thickness of 0.075 meter)	1.00	Cum	24186.83	24186.83	INR Twenty Four Thousand One Hundred & Eighty Six and Paise Eighty Three Only
35.03	RCC slab(11505.50 per cum for concrete + 927.25 for one sqm shuttering i.e.7418 per cum for slab thickness of 0.125 meter)	15.00	Cum	18923.50	283852.50	INR Two Lakh Eighty Three Thousand Eight Hundred & Fifty Two and Paise Fifty Only
36	Supply, fabrication, hoisting and placing in position Thermo-Mechanically Treated bars of grade Fe-500D or more of approved brand (SAIL / TATA TISCO/ JSW) as per detailed drawing and specifications including cutting, bending and tying with 18 SWG binding wire complete for all heights and depths as directed etc. complete including supply of all labours, tools, materials etc. complete as directed by the engineer in charge.(Placed Measurement weight qty	2,880.00	Kg	107.85	310608.00	INR Three Lakh Ten Thousand Six Hundred & Eight Only
37	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut Granite of black colour and shade for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete including supply of all labours, tools, materials, rubbing and polishing and finishing etc. complete as directed by the engineer in charge.	120.00	Sqm	5413.50	649620.00	INR Six Lakh Forty Nine Thousand Six Hundred & Twenty Only

38	<p>Providing and fixing 35mm thick ISI marked flush door shutters conforming to IS: 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters and ISI marked Stainless Steel butt hinges with necessary screws including lipping with 2nd class teak wood battens</p> <p>25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured) and also providing vision panel not exceeding 0.1 sqm (rectangular or square) in all type of flush doors including supply of all labours, tools, materials, rubbing and polishing and finishing etc.</p>	7.00	Sqm	3936.20	27553.40	INR Twenty Seven Thousand Five Hundred & Fifty Three and Paise Forty Only
39	<p>30 mm thick Fiberglass Reinforced Plastic (F.R.P.) flush door shutter in different plain and wood finish made with fire retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate all around, with suitable wooden blocks inside at required places for fixing of fittings and polyurethane foam (PUF)/ Polystyrene foam to be used as filler material throughout the hollow panel, casted monolithically with testing parameters of F.R.P. laminate conforming to table - 3 of IS: 14856, complete as per direction of Engineer-in-charge.</p>	17.00	Sqm	4488.95	76312.15	INR Seventy Six Thousand Three Hundred & Twelve and Paise Fifteen Only
40	<p>Supplying and fixing rolling shutters 80x1.25 mm M.S. laths with 1.25 mm thick top cover of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters, etc. as directed by engineer in charge.</p>	4.00	Sqm	3653.20	14612.80	INR Fourteen Thousand Six Hundred & Twelve and Paise Eighty Only

41	<p>Providing and fixing factory made uPVC white colour sliding glazed window upto 1.50 m in height dimension comprising of uPVC multichambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), appropriate dimension of uPVC extruded glazing beads and uPVC extruded interlocks, EPDM gasket, wool pile, zinc alloy (white powder coated) touch locks with hook, zinc alloy body with single nylon rollers (weight bearing capacity to be 40 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealent over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-inCharge. (Single / double glass panes, wire mesh and silicon sealent shall be paid separately). Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made .Note: For uPVC frame and sash extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable Three track three panels sliding window with fly proof SS wire mesh (Two nos. glazed & one no. wire mesh panels) made of (small series) frame 92 x 44 mm & sash 32 x 60 mm both having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension (Area of window upto 1.75 sqm)</p>	23.00	Sqm	12254.90	281862.70	INR Two Lakh Eighty One Thousand Eight Hundred & Sixty Two and Paise Seventy Only
42	<p>Providing and fixing in position polyster roller mosquito net for windows. Polyster Sections fixed with Raul plug and screws or with fixing clips or with expansion hold fasteners, including cleat angle, for all openings provided for windows including supply of all materials, labours, tools & plants etc. complete as directed by engineer in charge.</p>	80.00	Sqm	3810.00	304800.00	INR Three Lakh Four Thousand Eight Hundred Only
43	<p>Filling the gap Upto 5 mm depth and 5 mm width in between aluminium/ stone/ wood frame and adjacent RCC/Brick/ Stone/wood/ Ceramic/ Gypsum work by providing weather/structural non sag elastomeric PU sealant over backer rod of approved quality as per architectural drawings and direction of Engineer- in-charge complete, complying to ASTM C920, DIN 18540-F & ISO 11600</p>	112.00	Rmt	148.10	16587.20	INR Sixteen Thousand Five Hundred & Eighty Seven and Paise Twenty Only

44	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer etc. including supply of all materials, labours, tools & plants etc. complete as directed by engineer in charge. (Fixed to openings /wooden frames with rawl plugs screws etc.)	750.00	Kg	238.35	178762.50	INR One Lakh Seventy Eight Thousand Seven Hundred & Sixty Two and Paise Fifty Only
45	Making chases up to 7.5x7.5 cm in walls including making good and finishing with matching surface after housing PVC concealed wiring pipe etc. including supply of all labours, tools, materials, etc. complete as directed by the engineer in charge. (pipes will be supplied by department).	74.00	Rmt	202.90	15014.60	INR Fifteen Thousand & Fourteen and Paise Sixty Only
46	15 mm thick Cement Plaster in single coat on rough side of single or half brick wall for interior plastering up to floor two level, including arises, internal rounded angles chamfers and/ or rounded angles not exceeding 80 mm in girth and finished even and smooth in CM 1:4 (1 cement: 4 coarse sand) including supply of all labours, tools, materials, etc. complete as directed by the engineer in charge.	280.00	Sqm	411.75	115290.00	INR One Lakh Fifteen Thousand Two Hundred & Ninety Only
47	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth etc. including supply of all materials, tools, labours etc. complete as directed by the engineer in charge.	1,785.00	Sqm	156.05	278549.25	INR Two Lakh Seventy Eight Thousand Five Hundred & Forty Nine and Paise Twenty Five Only
48	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement: 5 coarse sand) and a top layer 6 mm thick cement plaster 1:3 (1 cement : 3 coarse sand) finished rough with sponge including supply of all labours, tools, materials, etc. complete as directed by the engineer in charge.	425.00	Sqm	537.45	228416.25	INR Two Lakh Twenty Eight Thousand Four Hundred & Sixteen and Paise Twenty Five Only
49	Providing and laying pressed clay tiles (as per approved pattern 20 mm nominal thickness of approved size) on roofs jointed with cement mortar 1:4 (1 cement : 4 coarse sand) mixed with 2% integral water proofing compound, laid over a bed of 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) and finished neat including supply of all labours, tools and plants, materials and finishing etc. complete as directed by the engineer in charge.	85.00	Sqm	709.75	60328.75	INR Sixty Thousand Three Hundred & Twenty Eight and Paise Seventy Five Only
50	Providing drip moulding 50mm wide plaster drip course/ groove in plastered surface or moulding to R.C.C. projections such as for chajjas, slab projections as and wherever directed with cement mortar 1:2 (1	60.00	Rmt	78.40	4704.00	INR Four Thousand Seven Hundred & Four Only

	Cement : 2 coarse sand) including supply of all labours, tools, materials, etc. complete as directed by the engineer in charge.					
51	Making plinth protection 50 mm thick of cement concrete 1:3:6 (1 cement: 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including finishing the top smooth.including supply of all labours, tools and plants, materials and finishing etc. complete as directed by the engineer in charge.	40.00	Sqm	749.30	29972.00	INR Twenty Nine Thousand Nine Hundred & Seventy Two Only
52	Providing and laying vitrified floor tiles of 600mm x 600mm size with water absorption less than 0.08% and conforming to IS : 15622, of approved make (Johnson/Kajaria/Nelco), in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc complete in true line and level, and joints filled with white cement and matching pigments etc. including supply of all labours, tools and plants, materials and finishing etc. complete as directed by the engineer in charge.	80.00	Sqm	1553.45	124276.00	INR One Lakh Twenty Four Thousand Two Hundred & Seventy Six Only
53	Providing and fixing 1st quality digital printed ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make (Johnson/Kajaria/Nelco) , in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	105.00	Sqm	1112.70	116833.50	INR One Lakh Sixteen Thousand Eight Hundred & Thirty Three and Paise Fifty Only
54	Providing and fixing Chequerred precast cement concrete tiles 22 mm thick in footpath & courtyard, jointed with neat cement slurry mixed with pigment to match the shade of tiles, including rubbing and cleaning etc. complete, on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand)	55.00	Sqm	1402.00	77110.00	INR Seventy Seven Thousand One Hundred & Ten Only
55	Making / Providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/ Granite/stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.	13.00	Each	978.70	12723.10	INR Twelve Thousand Seven Hundred & Twenty Three and Paise Ten Only

56	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.					
56.01	15 mm nominal outer dia Pipes (Concealed work)	47.00	Rmt	497.80	23396.60	INR Twenty Three Thousand Three Hundred & Ninety Six and Paise Sixty Only
56.02	20 mm nominal outer dia Pipes (Concealed work)	38.00	Rmt	537.60	20428.80	INR Twenty Thousand Four Hundred & Twenty Eight and Paise Eighty Only
56.03	25 mm nominal outer dia Pipes (Concealed work)	36.00	Rmt	627.25	22581.00	INR Twenty Two Thousand Five Hundred & Eighty One Only
56.04	32 mm nominal outer dia Pipes (Concealed work)	46.00	Rmt	739.30	34007.80	INR Thirty Four Thousand & Seven and Paise Eighty Only
56.05	40 mm dia (Internal work - Exposed on wall)	110.00	Rmt	702.95	77324.50	INR Seventy Seven Thousand Three Hundred & Twenty Four and Paise Fifty Only
57	Providing & fixing White vitreous china water closet squatting pan (Indian type) along with "S" or "P" trap including dismantling of old WC seat and "S" or "P" trap at site complete with all operations including all necessary fittings for inlet, outlet, materials, labour and disposal of dismantled material i/c malba, all complete as per the direction of Engineer-in charge. Orissa pattern W.C Pan of size 580x440 mm	2.00	Each	4478.75	8957.50	INR Eight Thousand Nine Hundred & Fifty Seven and Paise Fifty Only
58	Providing and fixing wall mounted, white vitreous china single piece, double traps syphonic water closet of approved brand/ make (Jaquar / Parryware/ Hindware), shape, size and pattern including integrated white vitreous china cistern of capacity 10 litres with dual flushing system, including all fittings and fixtures with seat cover, cistern fittings, nuts, bolts and gasket etc including making connection with the existing P/S trap, complete in all respect including all necessary fittings for inlet, outlet as and whenever directed supply of all labours, tools, materials, etc. complete	3.00	Each	18212.90	54638.70	INR Fifty Four Thousand Six Hundred & Thirty Eight and Paise Seventy Only
59	Providing and fixing white vitreous china flat back range of four half stall urinal of size 580x380x350 mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS : 2556, C.I. trap with outlet grating and other couplings in C.P. brass, including painting of	1.00	Each	25969.45	25969.45	INR Twenty Five Thousand Nine Hundred & Sixty Nine and Paise Forty Five Only

	fittings and cutting and making good the walls and floors wherever required all complete as per the direction of Engineer-in charge Range of four half stall urinals with 10 litre P.V.C. automatic flushing cistern					
60	Providing and fixing white Vitreous China Wash basin size 550x400 mm with a 15 mm CP Brass single hole basin mixer of approved quality and make, with C.I. brackets including painting of fittings and brackets, cutting and making good the walls wherever required including supply of all labours, materials, tools etc. complete as directed by the engineer in charge.	5.00	Each	3960.55	19802.75	INR Nineteen Thousand Eight Hundred & Two and Paise Seventy Five Only
61	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers etc. including supply of all labours, materials, tools etc. complete as directed by the engineer in charge.	6.00	Each	1607.95	9647.70	INR Nine Thousand Six Hundred & Forty Seven and Paise Seventy Only
62	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour including supply of all labours, materials, tools etc. complete as directed by the engineer in charge. (600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms)	1.00	Each	708.95	708.95	INR Seven Hundred & Eight and Paise Ninety Five Only
63	Providing and fixing Chromium Plated brass Napkin Holder of approved ISI mark and quality with C.P. brass brackets fixed to tiles wall with wooden plugs & C.P. Brass Screws near wash basin etc. including supply of all labours, materials, tools etc. complete as directed by the engineer in charge.	1.00	Each	803.70	803.70	INR Eight Hundred & Three and Paise Seventy Only
64	Providing and fixing PTMT soap Dish Holder of approved ISI mark and quality having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements, weighing not less than 106 gms. etc. including supply of all labours, materials, tools etc. complete as directed by the engineer in charge.	1.00	Each	111.45	111.45	INR One Hundred & Eleven and Paise Forty Five Only
65	Providing and fixing 600x120x5 mm glass shelf with edges round off, supported on anodised aluminium angle frame with C.P. brass brackets and guard rail complete fixed with 40 mm long screws, rawl plugs etc., complete.	4.00	Each	1083.50	4334.00	INR Four Thousand Three Hundred & Thirty Four Only

66	Providing and fixing Chromium Plated brass curtain rods of 25 mm diameter & 1.25 mm thick brass plates with two brass brackets fixed with brass screws and wooden plugs etc. wherever necessary etc. including supply of all labours, materials, tools etc. complete as directed by the engineer in charge.	9.00	Rmt	421.75	3795.75	INR Three Thousand Seven Hundred & Ninety Five and Paise Seventy Five Only
67	Providing and fixing Water Supply fittings and specials of approved quality of ISI make conforming to relevant IS specification including supply of all labour, materials, tools and plants etc. complete as directed by engineer in charge.					
67.01	15 mm nominal bore C.P. Brass Bib cock	5.00	Each	506.80	2534.00	INR Two Thousand Five Hundred & Thirty Four Only
67.02	15 mm nominal bore C.P. Brass Stop cock (concealed)	5.00	Each	670.45	3352.25	INR Three Thousand Three Hundred & Fifty Two and Paise Twenty Five Only
67.03	15 mm nominal bore C.P. Brass Angle valve for basin mixer and geyser	2.00	Each	574.30	1148.60	INR One Thousand One Hundred & Forty Eight and Paise Sixty Only
67.04	100 mm dia. shower rose with 15 or 20 mm inlet	1.00	Each	193.95	193.95	INR One Hundred & Ninety Three and Paise Ninety Five Only
67.05	PTMT waste Coupling for wash basin & sink (38 mm dia, 83 mm length & 77mm breadth)	5.00	Each	122.40	612.00	INR Six Hundred & Twelve Only
67.06	40 mm dia Semi rigid PVC waste pipe for sink or wash basin including P.V.C. waste fittings	5.00	Each	116.70	583.50	INR Five Hundred & Eighty Three and Paise Fifty Only
67.07	25 mm diameter mosquito proof coupling	5.00	Each	55.65	278.25	INR Two Hundred & Seventy Eight and Paise Twenty Five Only

67.08	Single lever telephonic wall mixer (Heavy duty)	1.00	Each	6,940.75	6940.75	INR Six Thousand Nine Hundred & Forty and Paise Seventy Five Only
67.09	8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate	3.00	Each	349.15	1047.45	INR One Thousand & Forty Seven and Paise Forty Five Only
67.1	CP Brass 32mm size Bottle Trap	8.00	Each	1,034.80	8278.40	INR Eight Thousand Two Hundred & Seventy Eight and Paise Forty Only
67.11	Flush Cock (Heavy duty)	5.00	Each	1,818.00	9090.00	INR Nine Thousand & Ninety Only
67.12	PVC 15 mm dia connection pipe for W.Basin.	5.00	Each	366.00	1830.00	INR One Thousand Eight Hundred & Thirty Only

67.13	25 mm dia CPVC Valve	4.00	Each	375.00	1500.00	INR One Thousand Five Hundred Only
67.14	32 mm dia CPVC Valve	4.00	Each	630.00	2520.00	INR Two Thousand Five Hundred & Twenty Only
67.15	40 mm dia CPVC Valve	4.00	Each	967.00	3868.00	INR Three Thousand Eight Hundred & Sixty Eight Only
67.16	15 mm dia Lead flexible Pipe for Geyser.	1.00	Each	163.00	163.00	INR One Hundred & Sixty Three Only
68	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion including fixing necessary clamps, screws and fittings, jointing of pipes & fittings with PVC solvent etc. including walling, making good the wall, ceiling and floor including cost of all materials, Tools & Plants, labour charges etc. complete as directed by the engineer in charge. (110 mm dia - Single socketed pipes)	60.00	Rmt	377.40	22644.00	INR Twenty Two Thousand Six Hundred & Forty Four Only
69	Applying priming coats with water thinnable cement primer on wall surface having VOC content less than 50 grams/litre of approved brand and manufacture to give an even shade etc. wherever required including supply of all materials, labours, tools, scaffoldings etc. complete as directed by the engineer in charge.	4,042.00	Sqm	73.95	298905.90	INR Two Lakh Ninety Eight Thousand Nine Hundred & Five and Paise Ninety Only
70	Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour. (Two coats)	1,665.00	Sqm	142.80	237762.00	INR Two Lakh Thirty Seven Thousand Seven Hundred & Sixty Two Only
71	Finishing walls with 1st quality Premium Acrylic Smooth exterior paint with Silicone additives of required shade (Asian/ Snowcem/ Berger) on new work (Two or more coats applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm) at all heights to give an even shade etc. wherever required including supply of all materials, labours, tools, scaffoldings etc. complete as directed by the engineer in charge.	2,665.00	Sqm	171.10	455981.50	INR Four Lakh Fifty Five Thousand Nine Hundred & Eighty One and Paise Fifty Only
72	Finishing with Epoxy paint (two or more coats) on steel work at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete	430.00	Sqm	241.75	103952.50	INR One Lakh Three Thousand Nine Hundred & Fifty Two and Paise Fifty Only

	including supply of all materials, labours, tools, scaffoldings etc. complete as directed by the engineer in charge.					
73	Constructing brick masonry gully chamber 50x45x60 cm with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in cement mortar 1:4 (1 cement : 4 coarse sand) with precast R.C.C. vertical grating complete as per standard design etc. complete including supply of all materials, labours, tools & plants, etc. as directed by engineer in charge.	4.00	Each	5,957.90	23831.60	INR Twenty Three Thousand Eight Hundred & Thirty One and Paise Sixty Only
74	Construction of masonry Septic tank of 5 user capacity as per standard design drawing No. B/1831 (inside size 1.50 x 0.75 m and 1 m deep with RCC Top Slab & precast manhole cover, necessary excavation, rubble soling, bed concrete with 1:4:8, Precast baffle wall, Coursed laterite stone masonry work (first sort), in Cement mortar 1:6 (1 cement : 6 coarse sand), 20 mm thick inside cement plaster in cement mortar 1 : 4 (1 cement : 4 coarse sand), vent pipe etc., including supply of all materials, labours, tools & plants, etc. complete as directed by engineer in charge.	2.00	Each	37,792.00	75584.00	INR Seventy Five Thousand Five Hundred & Eighty Four Only
75	Constructing soak pit 1.20x1.20x1.20 m filled with brickbats including S.W. drain pipe 100 mm diameter and 1.20 m long complete as per standard design.	2.00	Each	2890.10	5780.20	INR Five Thousand Seven Hundred & Eighty and Paise Twenty Only
76	Providing and fixing 100 mm sand cast Iron grating for gully trap as and wherever directed including supply of all labours, tools, materials etc complete as directed by engineer in charge.	4.00	Each	53.25	213.00	INR Two Hundred & Thirteen Only
77	Providing and fixing soil, waste and vent pipes of 100 mm dia Sand cast iron S&S pipe as per IS: 1729 with cawl including supply of all labours, tools and plants, materials etc. complete as directed by engineer in charge.	3.00	Rmt	1,151.90	3455.70	INR Three Thousand Four Hundred & Fifty Five and Paise Seventy Only
78	Providing, Supplying and Installation of Polyethylene Water Storage Tank (Sintex or National) ISI : 12701 marked, with cover and suitable locking arrangement on terrace (at all floor levels) with supporting the whole bottom area of the tank on durable, rigid and level platform, making inlet, outlet, overflow and scour connection, G.I nipples, uPVC Tank connector, nipples and cost of jointing material etc. complete as per specification and including cost of all materials, labours, tools & plats, loading, unloading, transportation etc. complete as directed by engineer in charge.	4,000.00	Litre	11.00	44000.00	INR Forty Four Thousand Only
79	Recovery of salvage value/scrap value of recovered material at the time of dismantling of the above said structure (RCC slab) including cost of transport from the site but excluding the cost of dismantling labours ,tools material etc. complete					

79.01	RCC (steel)	315.00	Kg	-15.00	-4725.00	INR Minus Four Thousand Seven Hundred & Twenty Five Only
79.02	Doors	8.00	Each	-1,000.00	-8000.00	INR Minus Eight Thousand Only
79.03	windows	24.00	Each	-500.00	-12000.00	INR Minus Twelve Thousand Only
79.04	Hand railing	330.00	Kg	-20.00	-6600.00	INR Minus Six Thousand Six Hundred Only
80	Excavation work by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m., as directed by Engineer-in-charge Hard rock (blasting prohibited)	85.00	Cum	1523.05	129459.25	INR One Lakh Twenty Nine Thousand Four Hundred & Fifty Nine and Paise Twenty Five Only
81	Providing and laying 1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 20 mm nominal size derived from natural sources) in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level, complete as per the direction of Engineer-in-charge.	11.00	Cum	6812.00	74932.00	INR Seventy Four Thousand Nine Hundred & Thirty Two Only

82	Providing and laying 1:2:4 (1 Cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources) in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level, complete as per the direction of Engineer-in-charge.	18.00	Cum	7780.30	140045.40	INR One Lakh Forty Thousand & Forty Five and Paise Forty Only
83	Construction of Coursed laterite stone masonry work (first sort), in Cement mortar 1:6 (1 cement : 6 coarse sand) in foundation and plinth as directed including supply of all materials, tools, labours etc. complete as directed by the engineer in charge	117.00	cum	8812.05	1031009.85	INR Ten Lakh Thirty One Thousand & Nine and Paise Eighty Five Only
84	Earth work in rough excavation All kinds of soil, banking excavated earth in layers not exceeding 20cm in depth, breaking clods, watering, rolling each layer with ½ tonne roller or wooden or steel rammers, and rolling every 3rd and top-most layer with power roller of minimum 8 tonnes and dressing up in embankments for roads, flood banks, marginal banks and guide banks or filling up ground depressions, lead upto 50 m and lift upto 1.5 m complete as per the direction of Engineer-in-charge.	50.00	Cum	395.30	19765.00	INR Nineteen Thousand Seven Hundred & Sixty Five Only

85	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earthwith lead upto 50 metres.	75.00	Sqm	218.90	16417.50	INR Sixteen Thousand Four Hundred & Seventeen and Paise Fifty Only
86	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete (test certificate for M30 from the manufacture is required) in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	8.00	Cum	10117.60	80940.80	INR Eighty Thousand Nine Hundred & Forty and Paise Eighty Only
87	Providing and laying 60mm thick cement concrete paver block of M-35 grade with approved colour, design & pattern, factory made chamfered edge Cement Concrete paver blocks in footpath, parks, lawns, drive ways or light traffic parking etc, of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand. complete all as per direction of Engineer-in-Charge	710.00	Sqm	1045.65	742411.50	INR Seven Lakh Forty Two Thousand Four Hundred & Eleven and Paise Fifty Only
88	20 mm cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement including supply of all labours, tools, materials and finishing etc. complete as directed by the engineer in charge.	220.00	sqm	587.20	129184.00	INR One Lakh Twenty Nine Thousand One Hundred & Eighty Four Only
89	Finishing with Epoxy paint (two or more coats) at all locations for Kerb stone and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete as per the direction of Engineer-in-charge.	90.00	Sqm	235.15	21163.50	INR Twenty One Thousand One Hundred & Sixty Three and Paise Fifty Only
90	Providing and fixing , Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings for external work. This includes jointing of pipes &					

	fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge.					
90.01	50 mm Dia Pipe	87.00	Rmt	794.25	69099.75	INR Sixty Nine Thousand & Ninety Nine and Paise Seventy Five Only
90.02	25 mm Dia Pipe	60.00	Rmt	355.40	21324.00	INR Twenty One Thousand Three Hundred & Twenty Four Only
91	Providing and fixing nominal bore gun metal gate valve with C.I. wheel of approved quality (screwed end) including supply of all labours, materials, tools & plants etc. complete as directed by engineer in charge. (External work)					
91.01	50 mm nominal bore	6.00	Each	1026.65	6159.90	INR Six Thousand One Hundred & Fifty Nine and Paise Ninety Only
91.02	25 mm nominal bore	25.00	Each	622.40	15560.00	INR Fifteen Thousand Five Hundred & Sixty Only
92	Providing and fixing gun metal non- return valve of approved quality (screwed end) including supply of all labours, materials, tools & plants etc. complete as directed by engineer in charge. (External work)					
92.01	50 mm nominal bore	3.00	Each	1371.20	4113.60	INR Four Thousand One Hundred & Thirteen and Paise Sixty Only
93	Providing, Supplying, Installation, commissioning & testing of 1.5 HP open well Submersible Pump of reputed make (Kirloskar/ Crompton Greaves/ Texmo) having ISI marked, suitable for minimum 45 metre head, energy efficient, Noiseless Operation, NRV in outlet, Stainless steel shaft and coupling, Stainless steel NRV body and suction housing, etc. including supply of all materials, labours, tools and plants, etc. complete as directed by engineer in charge.	1.00	Job	19177.00	19177.00	INR Nineteen Thousand One Hundred & Seventy Seven Only
94	Providing, Supplying and commissioning of MS CONTROL 1.5 HP Control Digital Panel Single Phase Plastic Body Submersible Motor Pump / Motor Starter with wire rope, adaptor and all necessary electrical accessories etc. including supply of all labours, materials, tools & plants etc. complete as directed by engineer in charge.	1.00	Job	2550.00	2550.00	INR Two Thousand Five Hundred & Fifty Only
95	Providing and fixing of FRP 2 windows square Security Cabin (GEM Product id 5116877-27178978599) height of 7.1 foot with 3 mm FRP layer, MS Angle, window type shall be powder coated aluminium sliding window with 4mm thick glass, finishing shall be polyurethane paint including	1.00	Each	57500.00	57500.00	INR Fifty Seven Thousand Five Hundred Only

	supply of all labours, materials, tools & plants etc. complete as directed by engineer in charge					
Total in Figures					9686148.19	INR Ninety Six Lakh Eighty Six Thousand One Hundred & Forty Eight and Paise Nineteen Only
Quoted Rate in Figures			Select		0.00	INR Zero Only
Quoted Rate in Words						INR Zero Only

Schedule of Work/Bill of Quantities uploaded separately on website



भारत सरकार
पत्तन, पोत परिवहन और जलमार्ग मंत्रालय
दीपस्तंभ और दीपपोत निदेशालय
'दीपभवन', एम.जी.मार्ग, घाटकोपर (पूर्व),
मुंबई 400077 (महाराष्ट्र)

Govt. of India
Ministry of Ports, Shipping & Waterways
DIRECTORATE OF LIGHTHOUSES & LIGHTSHIPS
'Deep Bhavan', M. G. Road, Ghatkopar
(East), Mumbai 400077 (Maharashtra)



दूरभाष / Telephone : 022 - 25068390 फ़ैक्स / FAX : 022 - 25060996 ई-मेल / E-mail : dte-mum@gov.in

SECTION -VIII

EVALUATION CRITERIA FOR TECHNICAL BID

1. सामान्य /General

1.1 The Technical bid shall be evaluated by a committee. It is mandatory on the part of the bidder to score a minimum of 70% to qualify for the opening of the commercial bid

1.2 The commercial bids of only those bidders shall be opened whose bid is technically qualified. Technically qualified bidders will be informed about opening of the commercial bid

1.3 The technically qualified bidder who has quoted the lowest rate shall be declared as the successful bidder.

2. **तकनीकी मूल्यांकन /Technical Evaluation :-** The Technical Evaluation shall be carried out based on following attributes to ascertain the quality of the bid. The statutory requirements are mandatory for getting eligible in technical bid. Hence the bidders are advised to submit all statutory documents without fail.

Note: If the bidder fails to furnish the proof of experience in similar works to meet the eligibility criteria for experience, he shall be considered disqualified even if he scores the minimum qualifying mark mentioned above.

Sl. No	Attributes	Max marks	Evaluation criteria
1	STATUTORY REQUIREMENTS	30	
i)	Self-attested copy of (a) Certificate of incorporation of the firm/ Registration of the firm. (b) Valid license/registration issued by the Central Govt. / State Govt. / Municipal Corporation etc having tender limits equivalent or more than the estimated cost	10	
ii)	Self-attested copy of the pan card	5	
iii)	Self-attested copy of firm's GST registration	5	
iv)	Affidavit Self attested that (a) bidder is not black listed and (b) Bid is unconditional.	5	
v)	List of Gazetted & Non gazetted employee (who are their relative) and serving in MOS or Directorate General of Lighthouses & Lightships anywhere in India.	5	
2	FINANCIAL STANDING OF THE FIRM	20	
i)	Proof of average financial turnover for the last three years (Profit/Loss Statement & Balance sheet)	10	i) 60% marks for minimum eligibility criteria ii) 100% marks for twice the minimum eligibility criteria or more iii) In between (i) & (ii) on pro rate basis

ii)	Annual report/Audited balance sheet	5		
iii)	Income tax return for last 3 years	5		
3	Experience in similar class of work as per clause 3.1.2 (iii)	20	i) 60% marks for minimum eligibility criteria ii) 100% marks for twice the minimum eligibility criteria or more iii. In between (i) & (ii) on pro rate basis	
4	Performances of previous works (Performance Certificate from Clients)	20	i) Very good	20
			ii) Good	15
			iii) Fair	10
			iv) Poor	0
5	Key Technical personnel for the work Graduate Engineer (Civil) -1 No-5 marks Diploma Engineer (Civil) – 2Nos -5 Marks	10		
TOTAL		100		

बयाना जमा फॉर्म/ Earnest Money Deposit Form

1. Bidder should prepare the EMD as per the instructions specified in the NIT/tender document.
2. Earnest Money Deposit shall be furnished in the form of **Demand Draft/Fixed Deposit receipt(FDR)/** of any scheduled Bank in favour of Director of Lighthouses and Lightships, Mumbai payable at Mumbai valid for 90 days. EMD in any other form shall not be accepted.
 3. Scanned copy of EMD should be submitted online with Cover-1 (i.e. Technical Bid).
 4. The original of EMD should be submitted to the Director, Directorate of Lighthouses & Lightships, Mumbai on or before the last date and time of the bid submission. Bidder should send the EMD through Post/Courier service/in person.
 5. The Director, Directorate of Lighthouses & Lightships, Mumbai shall not be responsible for any delay or loss, due to Postal/Courier services. The details of the demand draft/bank guarantee, physically sent should tally with the details available in the scanned copy & data entered during the bid submission time, otherwise the uploaded bid shall liable to be rejected.
 6. Earnest Money Deposit of the unsuccessful bidders shall be returned after completion of the processing of bids.
 7. The full EMD will be forfeited by the Director, Directorate of Lighthouses & Lightships, Mumbai, if,
 - a) The bidder withdraws his bid during bid validity period.
 - b) The bidder makes any modification in the terms & conditions of the Bid at his own.
 - c) The bidder does not accept corrigendum/addendum issued by the Director, Directorate of Lighthouses & Lightships, Mumbai, or any corrections raised due to error in filling the bid.
 - d) The successful bidder fails to sign the agreement within 15days from the issue of award of the contract.
 - e) The successful bidder fails to furnish valid for contract performance within 15 days from the issue of award of the contract.

EMD of the Successful bidder shall be refunded within 30 days without any interest after submitting the valid performance guarantee and subsequent its verification

Director
For and on behalf of the President of India

अनुबंध निष्पादन के लिए गारंटी प्रोफार्मा/ Proforma of Bank

GuaranteeContractPerformance

(स्टैम्प अधिनियम के अनुसार मुहर लगाए / To be stamped in accordance with Stamp Act)

बैंक गारंटी सं / Bank Guarantee No.: _____

संदर्भ / Ref. _____

दिनांक / Date _____

सेवा में / To,

भारत के राष्ट्रपतिमहोदय/ The President of India

निदेशक के माध्यम से / Acting through the Director

दीपस्तंभ और दीपपोत निदेशालय / Directorate of Lighthouses & Lightships

दीप भवन / Deep Bhavan, एम.जी. मार्ग / M.G. Road

घाटकोपर (पूर्व) / Ghatkopar (East)

मुंबई / Mumbai - 400 077

महोदय/ Sir,

In consideration of the President of India through the Director of Lighthouses & Lightships, Mumbai, (hereinafter referred to as 'DLL' which expression shall unless repugnant to the context or meaning thereof include its successors, administrators and assignees) having awarded to M/s. _____ with its reregistered/ Head Office at _____ (hereinafter referred to as the 'Contractor' which expression shall unless repugnant to the context or meaning thereof, include its successors, administrators, executors and assignees), a contract namely "**Reconstruction of power house, office, store room and General Maintenance of Tolleshwar Lighthouse station.**" by issue of the DLL's letter No _____ Dated _____ entering into a formal contract to that effect with the DLL on _____ vide agreement dated _____ (referred to as the Contract) and the Contractor having agreed to provide a Contract Performance Guarantee, for the faithful performance of the entire contract for ₹ _____ equivalent to 5% of the said value of the contract to the DLL.

We _____ (Name & Address of the bank) having its Head office at _____ (hereinafter referred to as the 'Bank' which expression shall, unless repugnant to the context or meaning thereof, include its successors, administrators, executors and assignees) do hereby guarantee and undertake to pay the DLL, on mere demand any and all moneys payable by the Contractor to the extent of ₹. _____ * as aforesaid at any time up to _____ (day/month/year) without any demur, reservation, contest, recourse or protest and/or without any reference to the Contractor. Any such demand made by the DLL on the Bank shall be conclusive and binding notwithstanding any difference between the DLL and the Contractor or any dispute pending before any Court, Tribunal, Arbitrator or any other authority. The Bank undertakes not to revoke this guarantee during its currency without previous consent of the DLL and further agrees that the guarantee herein contained shall continue to be enforceable till the DLL discharges this guarantee.

The DLL shall have the fullest liberty without affecting in any way the liability of the bank under this guarantee, from time to time to extend the time for performance of the contract by the Contractor. The DLL shall have the fullest liberty, without affecting the guarantee, to postpone from time to time the exercise of any powers vested in them or of any right which they might have against the Contractors, and to exercise the same at any time in any manner, and either to enforce or to forbear to enforce any covenants, contained or implied in the Contract between the DLL and the Contractor or any other course or remedy or security available to the DLL. The bank shall not be released of its obligations under these presents by any exercise by the DLL of its liberty with reference to the matters aforesaid or any of them or by reason of any other act or forbearance or other acts of omission or commission on the part of the DLL or any other indulgence shown by the DLL or by any other matter or thing whatsoever, which under law would, but for this provision, have the effect of relieving the bank.

The bank also agrees that the DLL at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance without proceeding against the Contractor and not withstanding any security or other guarantee that the DLL may have in relation to the Contractor's liabilities. We undertake to pay to the Government any amount so demanded by the Government, notwithstanding

- (i) Any dispute or difference between the Government or the Contractor or any other person or between the Contractor or any person or any suit or proceeding pending before any Court or Tribunal or Arbitration relating thereto; or
- (ii) The invalidity, irregularity or unenforceability of the contract; or
- (iii) in any other circumstances which might otherwise constitute discharge of this Guarantee, including any act of omission or commission on the part of the Government to enforce the obligations by the Contractors or any other person for any reason whatsoever.

We _____ (indicate the name of the bank) further agree that the guarantee herein contained shall be continued on and remain in full force and effect during the period that would be taken for the performance of the said Agreement and that it shall continue to be enforceable till all the dues of the Government under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till the DLL, certifies that the terms and conditions of the said agreement have been fully and properly carried out by the said Contractor(s) and accordingly discharges this guarantee.

We _____ (indicate the name of the bank) hereby agree and undertake that any claim which the Bank may have against the Contractor shall be subject and subordinate to the prior payment and performance in full of all the obligations of the Bank hereunder and the Bank will not without prior written consent of the Government exercise any legal rights or remedies of any kind in respect of any such payment or performance so long as the obligations of the bank hereunder remain owing and outstanding, regardless of the insolvency, liquidation or bankruptcy of the Contractor or otherwise howsoever. We will not counter claim or set off against its liabilities to the Government hereunder any sum outstanding to the credit of the Government with it.

Notwithstanding anything contained herein above our liability under this Bank Guarantee is limited to total amount of ₹ _____* and it shall remain in force up to and including _____** and shall be extended from time to time for such further period as desired by M/s _____ on whose behalf this guarantee has been given.

Dated this _____ day of _____ 2025 at _____

गवाह / Witness

हस्ताक्षर/Signature _____

हस्ताक्षर/Signature _____

नाम / Name _____ (बैंक रबर स्टैम्प)

Bank's Rubber Stamp

अधिकृत पता/ _____ बैंक स्टैम्प साथ पदनाम/ _____

Reg. Address

Designation with Bank Stamp

मुख्तारनामा के अनुसार मुख्तार/ _____

Attorney as per power of attorney

टिप्पणी/ Note :

1. जो भी लागू नहीं है, विष्कारीत करे/ Strike out whichever is not applicable.
 - * यह राशि परफोरमन्स गारंटीके लिए अनुबंध मूल्य के 5%(पाँच प्रतिशत) और सुरक्षा जमा के लिए 5% (पाँच प्रतिशत)होगी ।
 - * This sum shall be 5% (Five percent) for Performance Guarantee and 5% (Five percent) for Security Deposit of the contract Price.
 - ** अनुबंध में निर्दिष्ट के अनुसार परफोरमन्स गारंटीअवधि की तारीख संतोषजनक कार्य समाप्ती से 1 महीने के बाद की तारीख होगी । और सुरक्षा जमा की अवधि की तारीख संतोषजनक कार्य समाप्ती से 6 महीने के बाद की तारीख होगी ।
 - ** The date of performance guarantee will be 1 month after the satisfactory completion of works as specified in the Contract. The date of Security deposit will be 6 months after the satisfactory completion of works as specified in the Contract.
2. उचित मूल्य के स्टैम्प पेपर की खरीदी गारंटी जारी करने वाले बैंक के नाम पर की जाएगी.
The stamp papers of appropriate value shall be purchased in the name of Guarantee issuing Bank.

निविदा स्वीकृति पत्र /TENDER ACCEPTANCE LETTER

(कंपनी लेटर हेड पर दिया जाना है /To be given on Company Letter Head)

Date:

To,

भारत के राष्ट्रपति महोदय/ The President of India

निदेशक के माध्यम से/ Through the Director

दीपस्तंभ और दीपपोत निदेशालय/ Directorate of Lighthouses & Lightships,

मुंबई/ Mumbai

Sub: - Acceptance of Terms & Conditions of Tender.

Tender Reference No: - CM-MUM-03016(05)/1/2020-Civil dated 07/08/2025.

Name of Work : Reconstruction of power house, office, store room and general maintenance of Tolleshwar Lighthouse station.

1. I/We have downloaded/obtained the tender document(s) for the above mentioned 'Tender/Work' from the website(s) namely:

as per your advertisement, given in the above-mentioned website(s).

2. I/We hereby certify that I/We have read the entire Terms & Conditions of the Tender Documents from Page No.____ to ____ (including all documents like annexure(s), schedule(s), etc.), which form part of the contract agreement and I/We shall abide hereby the terms/conditions/clauses contained therein.

3. The corrigendum(s) issued from time to time by your department/organization too have also been taken into consideration, while submitting this acceptance letter.

4. I/We hereby unconditionally accept the tender condition of above-mentioned tender document(s)/corrigendum(s) in its totality/entirety.

5. In case any provisions of this tender are found violated, then your department/organization shall without prejudice to any other right or remedy be at liberty to reject this tender/bid including the forfeiture of the full said Earnest Money Deposit absolutely.

भवदीय, /Yours faithfully,

(बोलीदाता के हस्ताक्षर, आधिकारिक मुहर के साथ)

(Signature of the Bidder, with Official Seal)

वचनपत्र /UNDERTAKING

(कंपनी लेटरहेड पर दिया जाना है)

I.....son of Shri..... authorized signatory to sign the bid on behalf of M/S

.....do hereby give an undertaking that

- (i) the price bid does not contain any condition.
- (ii) we have not made payment or illegal gratification to any person/authority connected with the bid process, so as to influence the bid process and have not committed any offence under PC Act in connection with the bid.

(Seal of the Company)

Date.....

Signature of the bidder..... or his Authorised signatory

Place.....

Name of the bidder..... or his Authorised signatory

BID SECURING DECLARATION

(कंपनी लेटरहेड पर दिया जाना है) (On letter head of the firm)

I _____ son of Shri _____, Proprietor/Partner of M/s _____ hereby declare that if I/my/our firm withdraw or modify my/ our Bid during the period of validity or if the contract will be awarded to me/my/our firm and I/we fail to sign the contract or to submit a performance security before the deadline for the work of “ _____ ”, I/my/our firm will be suspended for the period of 03 years from being eligible to submit Bids for contracts with the Director, Directorate of Lighthouses & Lightships.

Date:

Signature with seal of Bidder

Place:

**DECLARATION REGARDING BLACKLISTING FROM TAKING PART IN GOVT.TENDER GOVT.
DEPT**

(To be executed on Rs.500/- Stamp paper & attested by Public Notary/Executive Magistrate by the bidder)

I / We Proprietor/ Partner(s)/ Director(s) of M/S. ----- hereby declare that the firm/company namely M/S.-----has not been blacklisted or debarred in the past by Government organization from taking part in Government tenders.

Signature -----

Name -----

Capacity in which as signed: -----

Name & address of the firm: -----

Date:

Signature of Bidder with seal.

विविध सूची /MISCELLANEOUS LIST

उन कार्यों और चूकों की सूची जिनके लिए जुर्माना लगाया जा सकता है

List of Acts and Omissions for which Fines can be Imposed

(In accordance with rule 8(d) of the Lighthouse Department contractor's labour Regulations to be displayed prominently at the site of work in both English and local language).

1. With insubordinations or disobedience, whether alone or in combination.
2. Theft, fraud or dishonesty in connection with the contractors beside a business a property of Lighthouse Department.
3. Taking or giving bribes or any illegal gratifications.
4. Habitual late attendance.
5. Drunkenness fighting, riotous or disorderly or indifferent behavior.
6. Habitual negligence.
7. Smoking near or around the area where combustible or other materials are locked.
8. Habitual indiscipline.
9. Causing damage to work in the progress or to property of the Department of Lighthouses and Lightships or of the contractor.
10. Sleeping on duty.
11. Malingering or slowing down work.
12. Giving of false information regarding name, age, father's name etc.,
13. Habitual Loss of wage cards supplied by the employers.
14. Unauthorised use of employer's property of manufacture of making of unauthorized articles at the work place.
15. Bad workmanship in construction and maintenance by skilled workers, which is not approved by the Department and for which the contractors are compelled to undertake rectifications.
16. Making false complaints and / or misleading statements.
17. Engaging on trade within the premises of the establishments.
18. Any unauthorized divulgence of business affairs of the employees.
19. Collection or canvassing for the collection of any money within the premises of an establishment unless authorized by the employer.
20. Holding meeting inside the premises without previous sanction of the employers.
21. Threatening or intimidating any workman or employer during the working hours within the premises.

(कंपनी लेटरहेड पर दिया जाना है) (On letter head of the firm)

अनुलग्नक/ANNEXURE – VIII

Dated:

DECLARATION

To

The Director

Directorate of Lighthouse & Lightships, Deep
Bhavan, M G Road
Ghatkopar (East)
Mumbai-400077.

Sub: Name of Work :-

It is certified that none of my relatives are not working in Ministry of Ports, Shipping and Waterways (or) Directorate of Lighthouses & Lightships, anywhere in India.

Yours truly,

Signature with date: Name:

Designation: Official

Seal

**Self-Certification under Preference to “MAKE IN INDIA” order
Certificate**

In line with Government Public Procurement Order No. P-45021/2/2017-PP (BE-II) dated 04.06.2020 and its amendments , we hereby certify that we M/s _____ are local supplier meeting the requirement of minimum local content i.e. _____% as defined in above orders for the material against Enquiry/Tender No. _____.

Details of location at which local value addition will be made as follows:

ADDRESS: _____

We also understand, false declarations will be in breach of the Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rule for which for which a bidder or its successors can be debarred for up two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.

Signature of the bidder with stamp

Name of the work:

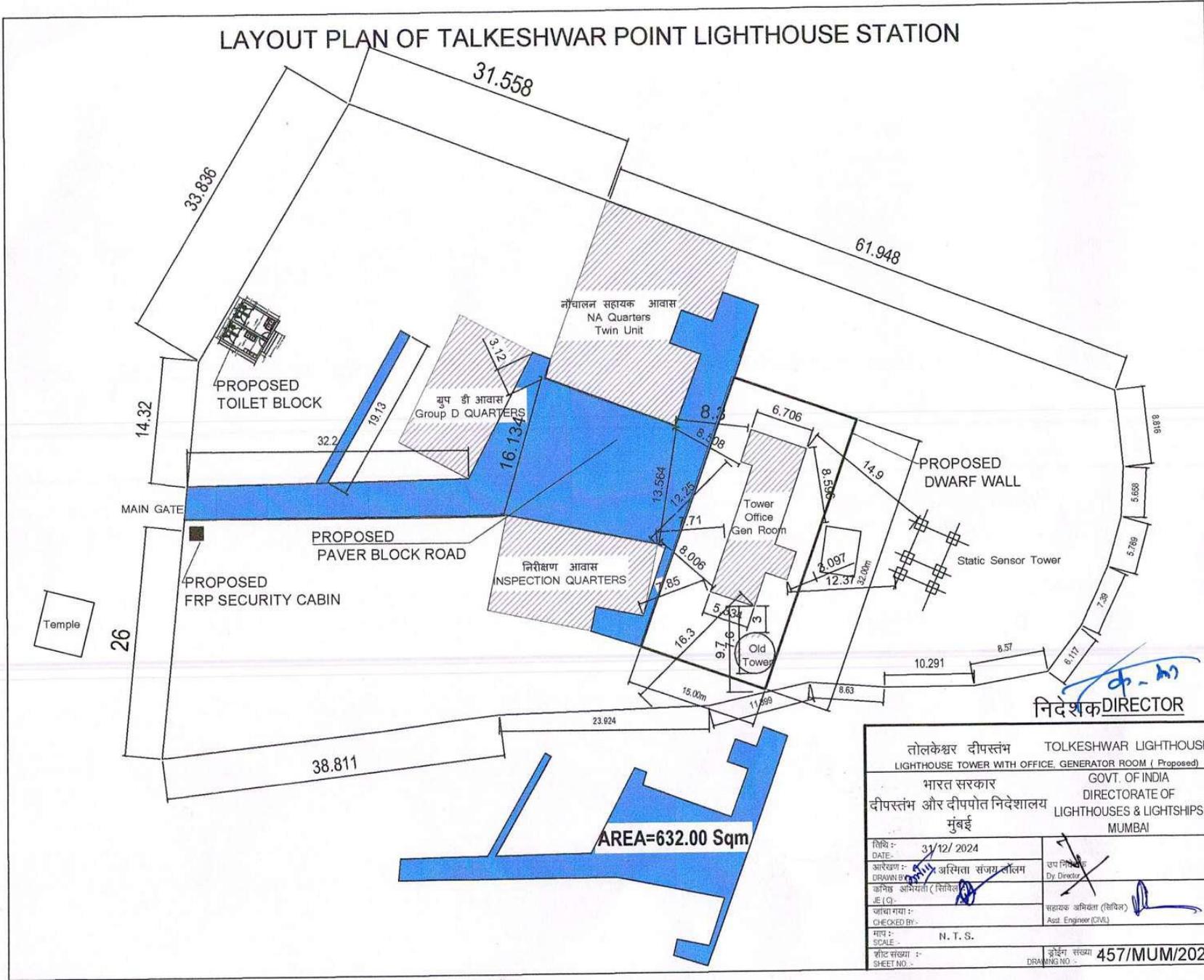
DLL/REG/04

Work order No. and Date:

**बाधा रजिस्टर /HINDRENCE
REGISTER**

SR.NO	HINDRENCE MARK DATE	DESCRIPTION	START DATE	FINISH DATE	DAYS TAKEN IN TO RESOLVE ISSUE	SCHEDULE DATE	DAYS TAKEN FOR HINDERENCE CALCULATION	REMARK/ CONTRACTOR SIGN
1	2	3	4	5	6 = 5-4	7	8= IF(5<7,0) OR (5-7)	9

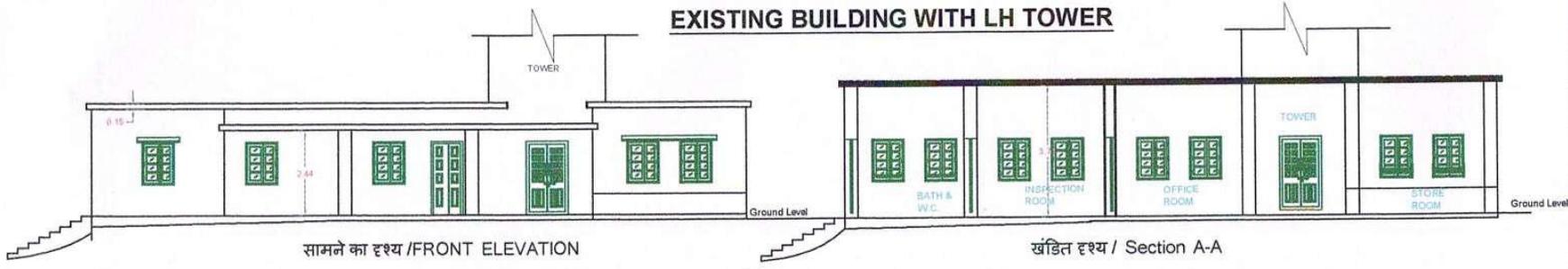
LAYOUT PLAN OF TALKESHWAR POINT LIGHTHOUSE STATION



निदेशक DIRECTOR

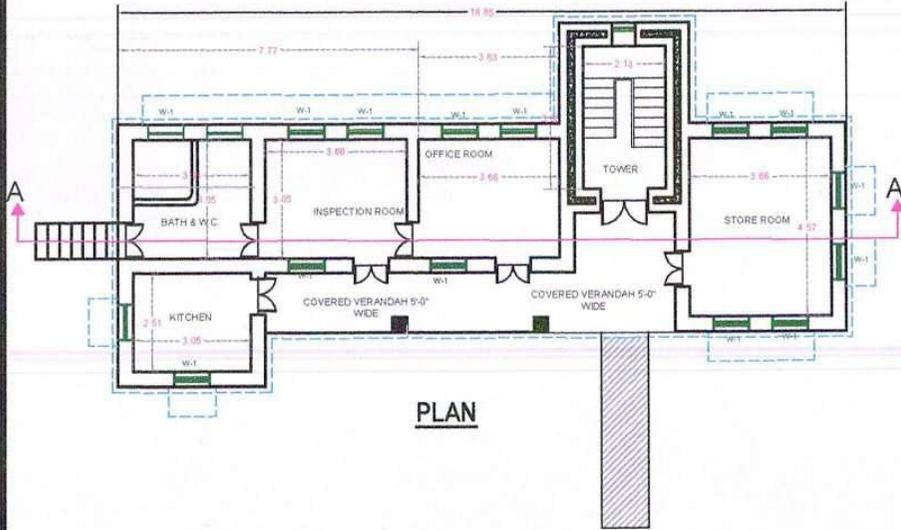
तोलकेश्वर दीपस्तंभ TOLKESHWAR LIGHTHOUSE	
Lighthouse Tower with Office, Generator Room (Proposed)	
भारत सरकार GOVT. OF INDIA	
दीपस्तंभ और दीपपोत निदेशालय DIRECTORATE OF LIGHTHOUSES & LIGHTSHIPS	
मुंबई MUMBAI	
तिथि : 31/12/2024	रूप निदेशक Dy. Director
आरेखण : अस्मिता संजय लॉलिम	सहायक अभियंता (सिविल) Asst. Engineer (CIVIL)
जांचा मग्या : N. T. S.	
शीट संख्या : 457/MUM/2024	

EXISTING BUILDING WITH LH TOWER



सामने का दृश्य / FRONT ELEVATION

खंडित दृश्य / Section A-A



PLAN

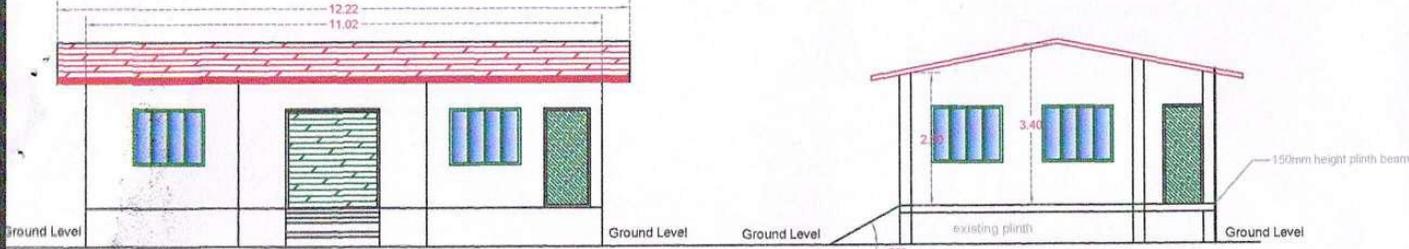
मौजूदा-दरवाजों और खिड़कीयों की अनुसूची
Existing-schedule of doors and windows

Sr No	DESCRIPTION	SIZE	NOS
01	TW DOUBLE LEAF DOOR	09.00 X 2.10m	02
02	WOODEN GLAZED WINDOW DOUBLE LEAF	090 X 1.20m	16

निदेशक DIRECTOR

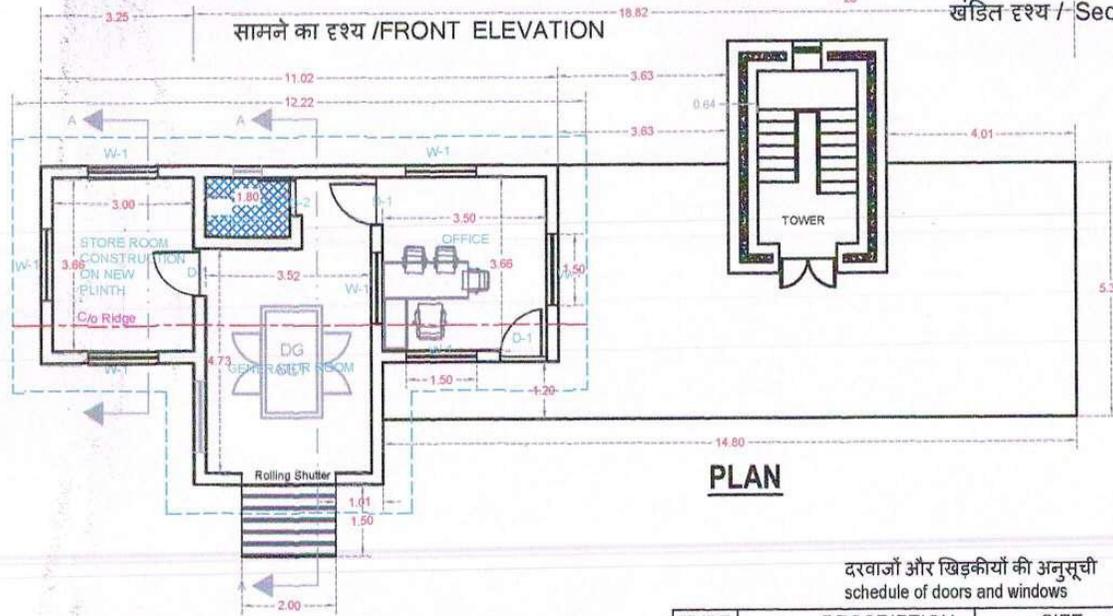
तोलकेश्वर दीपस्तंभ	TOLKESHWAR LIGHTHOUSE
LIGHTHOUSE TOWER WITH OFFICE, GENERATOR ROOM (Existing)	
भारत सरकार	GOVT. OF INDIA
दीपस्तंभ और दीपपोतनिदेशालय	DIRECTORATE OF LIGHTHOUSES & LIGHTSHIPS
मुंबई	MUMBAI
दिनांक :- 16/12/ 2024	
ड्राईंग :- अस्मिता वाजय जोलम	एन एन डी
जांच :- अश्विनी (सिविल)	असि एंजिनियर (सिविल)
जांच :-	असि एंजिनियर (सिविल)
मंजूर :- N. T. S.	
ड्राईंग नंबर :-	ड्राईंग नंबर :- 458/MUM/2024

PROPOSED BUILDING

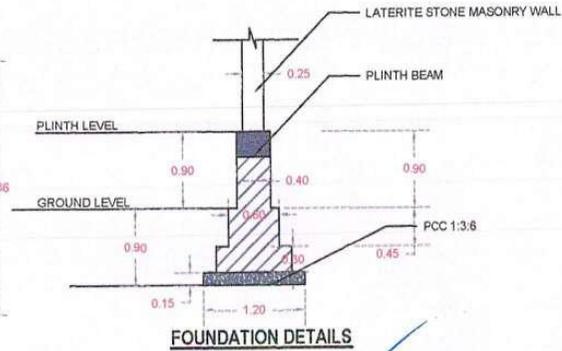


सामने का दृश्य / FRONT ELEVATION

खंडित दृश्य / Section A-A



PLAN



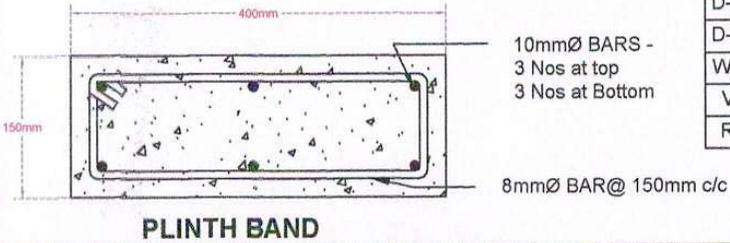
FOUNDATION DETAILS

निदेशक DIRECTOR

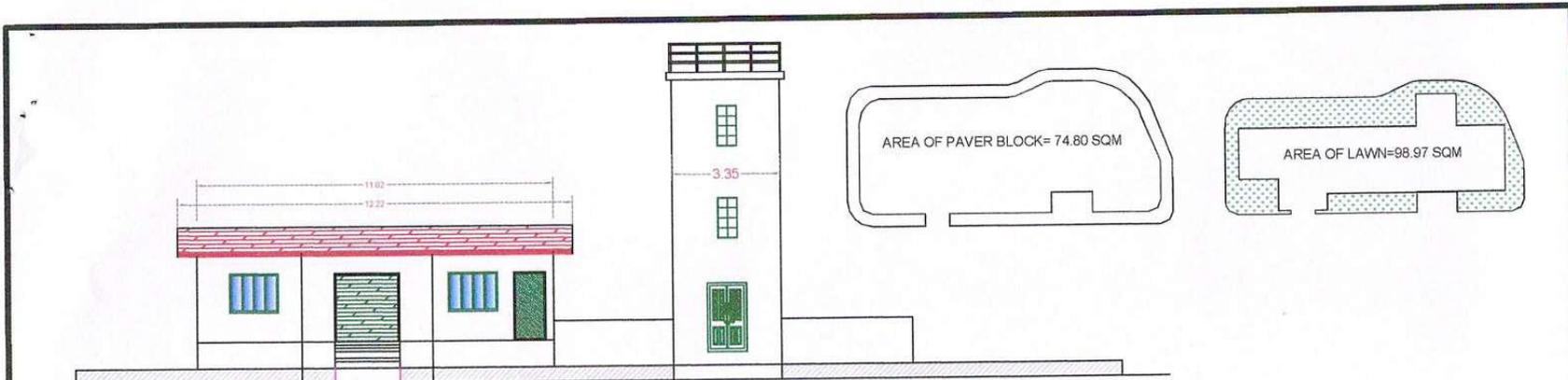
दरवाजों और खिड़कीयों की अनुसूची
schedule of doors and windows

TYPE	DESCRIPTION	SIZE	NOS
D-1	NEW FLUSH DOOR	1.00 X 2.10m	03
D-2	PVC DOOR	0.80 X 1.9m	01
W-1	ALUMINIUM SLIDING WINDOW	1.50 X 1.20m	07
V	GLAZED VENTILATOR	060 X 0.450m	01
RS	ROLLING SHUTTER	2.00 x 1.80m	01

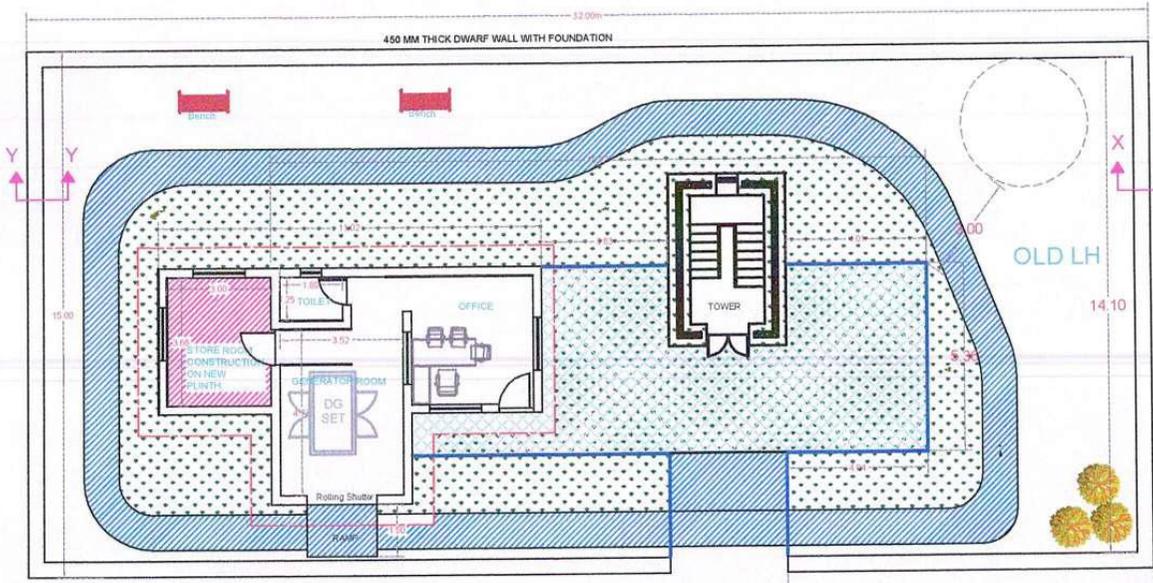
तोलकेश्वर दीपस्तंभ TOLKESHWAR LIGHTHOUSE	
LIGHTHOUSE TOWER WITH OFFICE, GENERATOR ROOM (Proposed)	
भारत सरकार GOVT. OF INDIA	निदेशक DIRECTOR
दीपस्तंभ और दीपपोत निदेशालय DIRECTORATE OF LIGHTHOUSES & LIGHTSHIPS	मुंबई MUMBAI
दिनांक 16/12/2024	उप निदेशक Dy. Director
आरेखण अभिषेक संजय कोलम	सहायक अभियंता (निर्माण) Asst. Engineer (DW)
जांचा मंडळ N. T. S.	ड्रॉइंग नंबर 459/MUM/2024



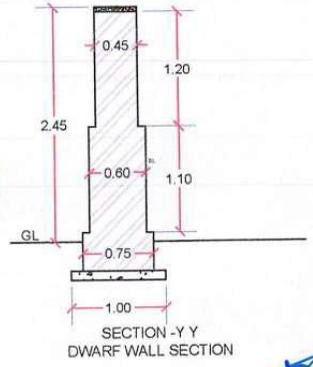
PLINTH BAND



4.02 सामने का दृश्य /FRONT ELEVATION



PLAN

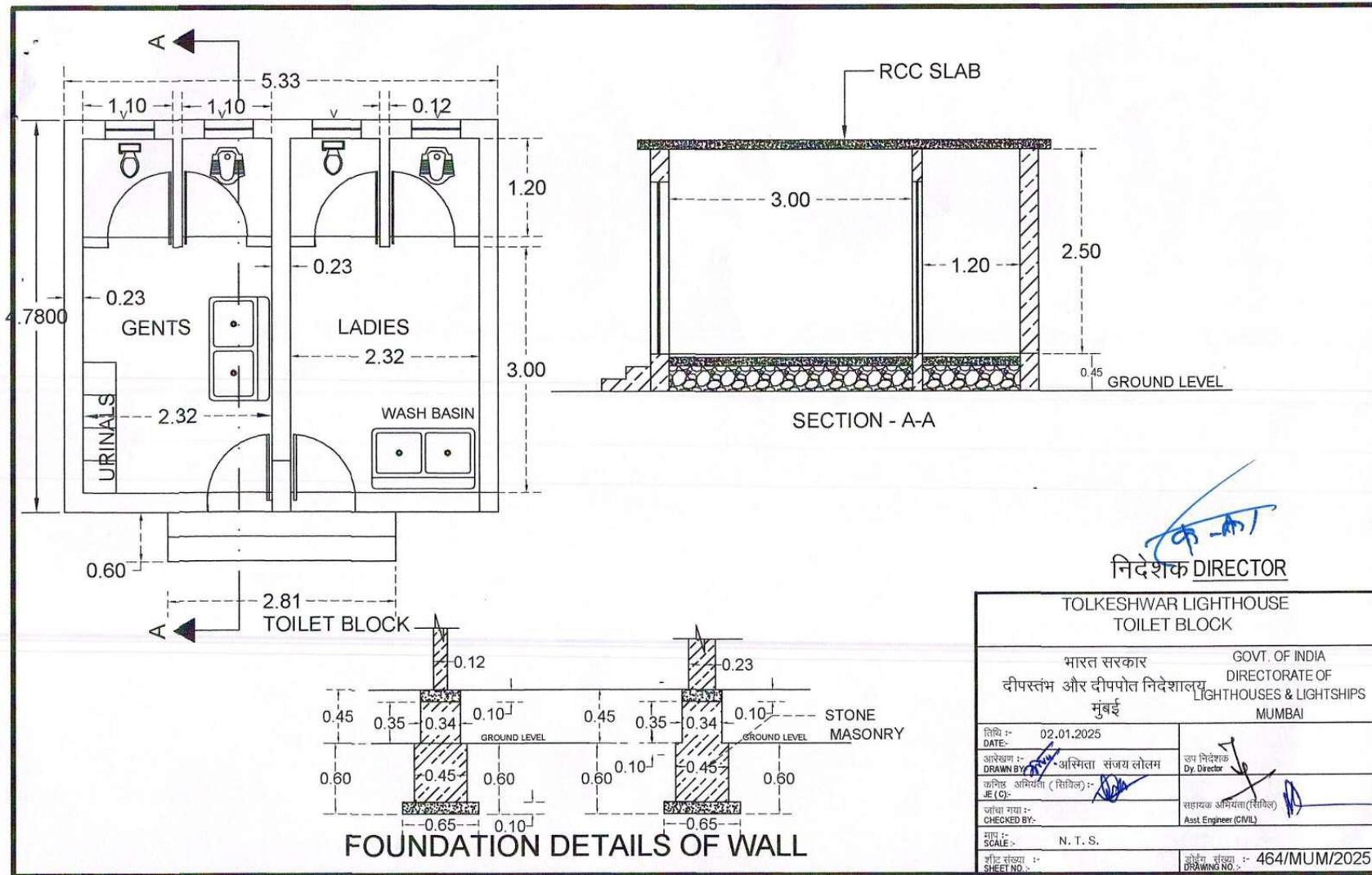


SECTION -Y-Y DWARF WALL SECTION

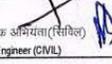
(Handwritten signature)

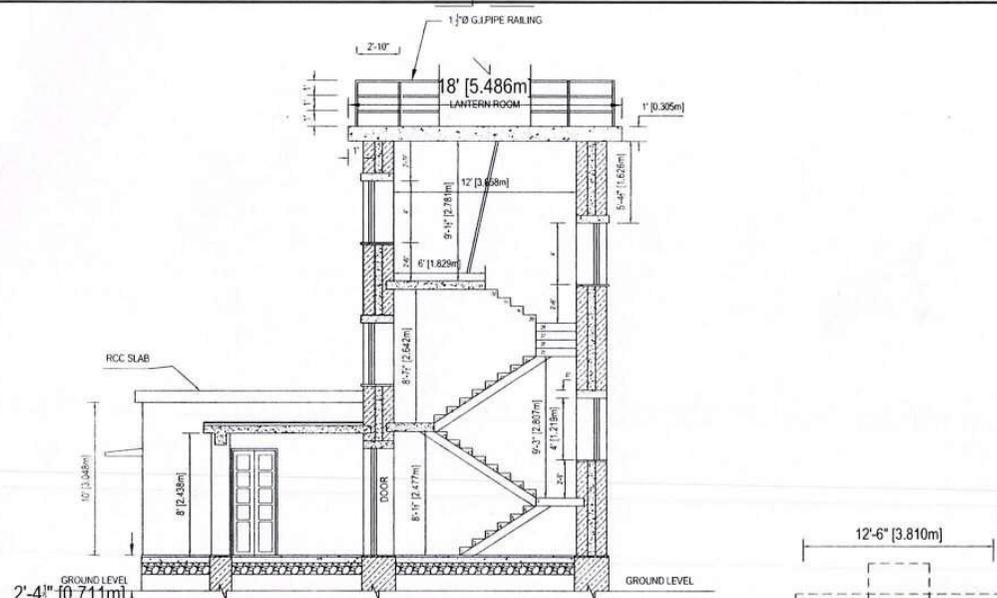
निदेशक
DIRECTOR

सोलकेश्वर दीपस्तंभ	TOLKESHWAR LIGHTHOUSE
LIGHTHOUSE TOWER WITH OFFICE, GENERATOR ROOM (Proposed)	
भारत सरकार	GOVT. OF INDIA
दीपस्तंभ और दीपपोत निदेशालय	DIRECTORATE OF LIGHTHOUSES & LIGHTSHIPS
मुंबई	MUMBAI
दिनांक: 31/12/2024	एच. निदेशक H. Director
ड्राफ्ट्समैन: अमिता सचच जोसम	एच. निदेशक H. Director
कनिष्ठ अभियंता (निदेशक)	एच. निदेशक (निदेशक) H. Director (Director)
स्केल: N. T. S.	
ड्राइंग नं. 463/MUM/2024	

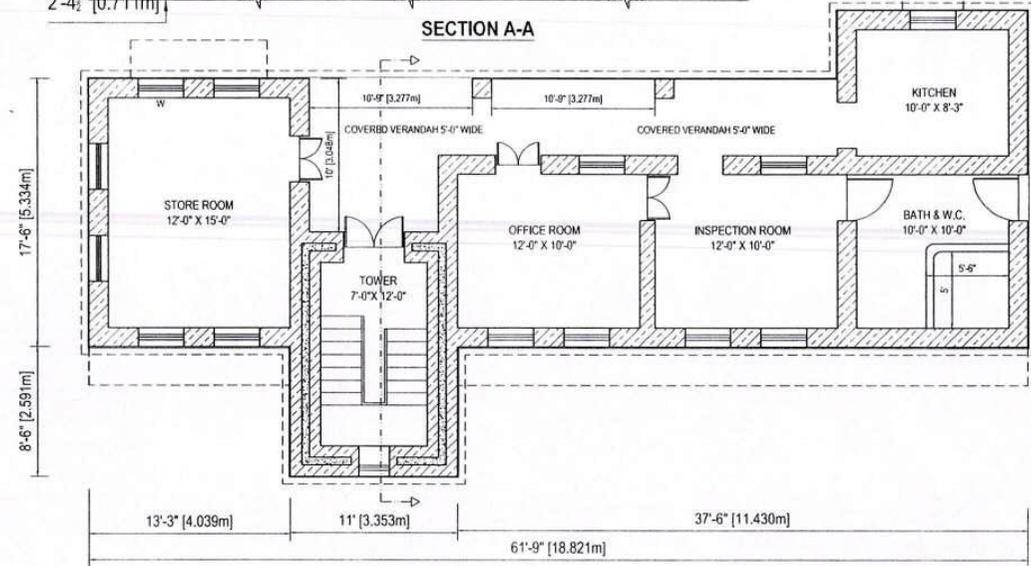



 निदेशक DIRECTOR

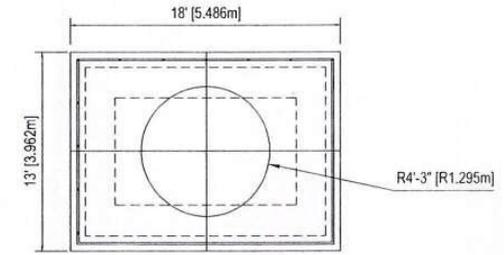
TOLKESHWAR LIGHTHOUSE TOILET BLOCK	
भारत सरकार दीपस्तंभ और दीपपोत निदेशालय मुंबई	GOVT. OF INDIA DIRECTORATE OF LIGHTHOUSES & LIGHTSHIPS MUMBAI
दिनांक :- 02.01.2025 DATE:-	 राय निदेशक Dy. Director
आरेखण :- अस्मिता संजय लोतम DRAWN BY:-	
कनिष्ठ अभियंता (सिविल) :- JE (C):-	 सहायक अभियंता (सिविल) Asst. Engineer (CIVIL)
जांचा गया :- CHECKED BY:-	
माप :- SCALE:-	N. T. S.
शीट संख्या :- SHEET NO.:-	शीट संख्या :- 464/MUM/2025 DRAWING NO.:-



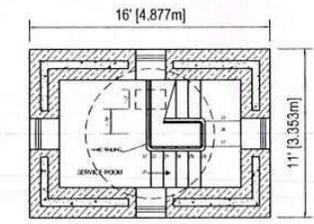
SECTION A-A



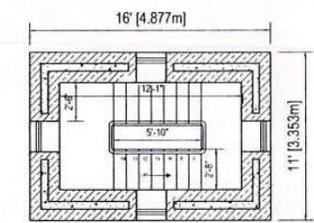
PLAN



PLAN OF TOP SLAB



PLAN OF TOP B-B



PLAN OF TOP B-B

निदेशक (R)
DIRECTOR (R)

वोलकेश्वर पॉइन्ट दीपखंभ		TOLKESHAWAR POINT LIGHTHOUSE	
LAYOUT PLAN			
भारत सरकार दीपखंभ और दीपखंभ निदेशक		GOVT. OF INDIA DIRECTORATE OF LIGHTHOUSES & LIGHTSHIPS KARASAI	
दिनांक DATE: 17th June 2001	निदेशक (R) DIRECTOR (R)	प्रमुख CHIEF ENGINEER	निदेशक (R) DIRECTOR (R)
जि. नं. SCALE: 1:50	वर्क नं. WORK NO.	प्रमुख CHIEF ENGINEER	निदेशक (R) DIRECTOR (R)
NOTE - COMPUTERISED FROM OLD DRAWING NO			प्रमुख CHIEF ENGINEER B/2056

